

Db	2101	TTCAAAGACAGTTACCACAACCTACGTCTCTCCATCCACGACGTGCCCAGCTCCCTGTGG	2160
Qy	2206	AAGAGTAAGCTCCTTGTCTAGCTACCAGGAGATCCCCTTTTATCACATCTGGAATGGCACG	2265
Db	2161	AAGAGCAAGCTACTTGTCTAGCTACCAGGAGATCCCTTTTACCACATCTGGAACGGCACC	2220
Qy	2266	CAGCGGTACTTGCACTGCACCTTCACCCTGGAGCGTGTCTAGCCCCAGCACTAGTGACCTG	2325
Db	2221	CAGCAGTATCTGCACTGCACCTTCACCCTGGAGCGCATCAACGCCAGCACCAGCGACCTG	2280
Qy	2326	GCCTGCAAGCTGTGGGTGTGGCAGGTGGAGGGCGACGGGCAGAGCTTCAGCATCAACTTC	2385
Db	2281	GCCTGCAAGGTGTGGGTGTGGCAGGTGGAGGGAGATGGGCAGAGCTTCAACATCAACTTC	2340
Qy	2386	AACATCACCAAGGACACAAGGTTTGCTGAGCTGCTGGCTCTGGAGAGTGAAGCGGGGGTTC	2445
Db	2341	AACATCACTAAGGACACAAGGTTTGCTGAATTGTTGGCTCTGGAGAGTGAAGGGGGGGTTC	2400
Qy	2446	CCAGCCCTGGTGGGCCCCAGTGCCTTCAAGATCCCCTTCCTCATTCGGCAGAAGATAATT	2505
Db	2401	CCAGCCCTGGTGGGCCCCAGTGCCTTCAAGATCCCCTTCCTCATTCGGCAAAGATCATC	2460
Qy	2506	TCCAGCCTGGACCCACCCTGTAGGCGGGGTGCCGACTGGCGGACTCTGGCCCAGAACTC	2565
Db	2461	GCCAGTCTGGACCCACCCTGCAGCCGGGGCGCCGACTGGAGAACTCTAGCCCAGAACTT	2520
Qy	2566	CACCTGGACAGCCATCTCAGCTTCTTTGCCTCCAAGCCCAGCCCCACAGCCATGATCCTC	2625
Db	2521	CACCTGGACAGCCATCTTAGCTTCTTTGCCTCCAAGCCCAGCCCTACAGCCATGATCCTC	2580
Qy	2626	AACCTGTGGGAGGCGCGGCACTTCCCCAACGGCAACCTCAGCCAGCTGGCTGCAGCAGTG	2685
Db	2581	AACCTATGGGAGGCACGGCACTTCCCCAACGGCAACCTCGGCCAGCTGGCAGCAGCTGTG	2640
Qy	2686	GCTGGACTGGGCCAGCCAGACGCTGGCCTCTTCACAGTGTCTGGAGGCTGAGTGCTGAGGC	2745
Db	2641	GCCGGACTGGGCCAACCAGATGCTGGCCTCTTCACGGTGTCTGGAGGCCGAGTGTGAGAC	2700
Qy	2746	CGGCCAG	2752
Db	2701	CAGCCAG	2707

RESULT 2

US-09-306-902A-1

; Sequence 1, Application US/09306902A

; Patent No. 6277585

; GENERAL INFORMATION:

; APPLICANT: Tessier-Lavigne, Marc

; Leonardo, E. David

; Hink, Lindsay

; Masu, Masayuki

; Kazuko, Keino-Masu

; TITLE OF INVENTION: Netrin Receptors

; NUMBER OF SEQUENCES: 9

; CORRESPONDENCE ADDRESS:

```

;      ADDRESSEE: SCIENCE & TECHNOLOGY LAW GROUP
;      STREET: 268 BUSH STREET, SUITE 3200
;      CITY: SAN FRANCISCO
;      STATE: CALIFORNIA
;      COUNTRY: USA
;      ZIP: 94104
;
;      COMPUTER READABLE FORM:
;      MEDIUM TYPE: Floppy disk
;      COMPUTER: IBM PC compatible
;      OPERATING SYSTEM: PC-DOS/MS-DOS
;      SOFTWARE: PatentIn Release #1.0, Version #1.30
;
;      CURRENT APPLICATION DATA:
;      APPLICATION NUMBER: US/09/306,902A
;      FILING DATE: 07-May-1999
;      CLASSIFICATION: <Unknown>
;
;      ATTORNEY/AGENT INFORMATION:
;      NAME: OSMAN, RICHARD A
;      REGISTRATION NUMBER: 36,627
;      REFERENCE/DOCKET NUMBER: UC96-217
;
;      TELECOMMUNICATION INFORMATION:
;      TELEPHONE: (415) 343-4341
;      TELEFAX: (415) 343-4342
;
;      INFORMATION FOR SEQ ID NO: 1:
;      SEQUENCE CHARACTERISTICS:
;      LENGTH: 3014 base pairs
;      TYPE: nucleic acid
;      STRANDEDNESS: double
;      TOPOLOGY: linear
;
;      MOLECULE TYPE: cDNA
;      SEQUENCE DESCRIPTION: SEQ ID NO: 1:
US-09-306-902A-1

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Query Match          82.1%;  Score 2259;  DB 3;  Length 3014;
Best Local Similarity 89.7%;  Pred. No. 0;
Matches 2427;  Conservative 0;  Mismatches 280;  Indels 0;  Gaps 0;

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Qy      46 ATGGCCGTCGGGCCCGGCCTGTGGCCAGCGCTCCTGGGCATAGTCCTCGCCGCTTGGGCTC 105
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Db      1  ATGGCCGTCGGGCCCGGCCTGTGGCCAGTGCTCCTGGGCATAGTCCTCGCCGCCTGGCTT 60

Qy     106 CGCGGCTCGGGTGCCAGCAGAGTGCCACCGTGGCCAACCCAGTGCCTGGTGCCAACCCG 165
        || || ||||||||||||||| ||||||| ||||||| |||||||
Db     61  CGTGGTTCGGGTGCCAGCAGAGTGCCACGGTGGCCAATCCAGTGCCCGGTGCCAACCCC 120

Qy     166 GACCTGCTTCCCCACTTCCTGGTGGAGCCCGAGGATGTGTACATCGTCAAGAACAAGCCA 225
        ||||||| ||||||||||||||| ||||| ||||| ||||||| |||||||
Db     121 GACCTGCTGCCCCACTTCCTGGTAGAGCCTGAGGACGTGTACATTGTCAAGAACAAGCCG 180

Qy     226 GTGCTGCTTGTGTGCAAGGCCGTGCCCGCCACGCAGATCTTCTTCAAGTGCAACGGGGAG 285
        ||| || | ||||||||||| ||||| ||||| ||||||||||||||| |||||
Db     181 GTGTTGTTGGTGTGCAAGGCTGTGCCTGCCACCCAGATCTTCTTCAAGTGCAATGGGGAA 240

Qy     286 TGGGTGCGCCAGGTGGACCACGTGATCGAGCGCAGCACAGACGGGAGCAGTGGGCTGCCC 345
        ||||| ||||||| || ||||| || || ||||||| ||| | ||||| || |||||
Db     241 TGGGTCCGCCAGGTGCATCACGTAATTGAACGCAGCACCGACAGCAGCAGCGGATTGCCA 300

Qy     346 ACCATGGAGGTCCGCATTAATGTCTCAAGGCAGCAGGTGCGAGAAGGTGTTCCGGGCTGGAG 405

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Db	301	ACCATGGAGGTCCGTATCAACGTATCGAGGCAGCAGGTAGAGAAAAGTGTGGGCTGGAG	360
Qy	406	GAATACTGGTGCCAGTGCCTGGCATGGAGCTCCTCGGGCACCACCAAGAGTCAGAAGGCC	465
Db	361	GAATACTGGTGCCAGTGTGTGGCATGGAGCTCCTCGGGTACCACCAAAAAGTCAGAAGGCC	420
Qy	466	TACATCCGCATAGCCAGATTGCGCAAGAACTTCGAGCAGGAGCCGCTGGCCAAGGAGGTG	525
Db	421	TACATCCGGATTGCCTATTTGCGCAAGAACTTTGAGCAGGAGCCACTGGCCAAGGAAGTG	480
Qy	526	TCCCTGGAGCAGGGCATCGTGCTGCCCTGCCGTCCACCGAGGGGCATCCCTCCAGCCGAG	585
Db	481	TCACTGGAGCAAGGCATTGTACTACCTTGTCGCCCCCAGAAGGAATCCCCCAGCTGAG	540
Qy	586	GTGGAGTGGCTCCGGAACGAGGACCTGGTGGACCCGTCCCTGGACCCCAATGTATACATC	645
Db	541	GTGGAGTGGCTTCGAAATGAGGACCTCGTGGACCCCTCCCTCGATCCAATGTGTACATC	600
Qy	646	ACGCGGGAGCACAGCCTGGTGGTGCACAGGCCCGCCTTGCTGACACGGCCAACTACACC	705
Db	601	ACGCGGGAGCACAGCCTAGTCGTGCGTCAGGCCCGCCTGCGCCGACACGGCCAACTACACC	660
Qy	706	TGCGTGGCCAAGAACATCGTGGCACGTCGCCGCAGCGCCTCCGCTGCTGTCATCGTCTAC	765
Db	661	TGTGTGGCCAAGAACATCGTAGCCCGTCGCCGAAGCACCTCTGCAGCGGTGATTGTTTAT	720
Qy	766	GTGAACGGTGGGTGGTTCGACGTGGACCGAGTGGTCCGTCTGCAGCGCCAGCTGTGGGCGC	825
Db	721	GTGAACGGTGGGTGGTTCGACGTGGACTGAGTGGTCCGTCTGCAGCGCCAGCTGTGGGCGT	780
Qy	826	GGCTGGCAGAAACGGAGCCGGAGCTGCACCAACCCGGCGCCTCTCAACGGGGGCGCTTTC	885
Db	781	GGCTGGCAGAAACGGAGCCGGAGCTGCACCAACCCGGCACCTCTCAACGGGGGCGCCTTC	840
Qy	886	TGTGAGGGGCAGAATGTCCAGAAAACAGCCTGCGCCACCCTGTGCCCAGTAGACGGCAGC	945
Db	841	TGTGAGGGGCAGAATGTCCAGAAAACAGCCTGCGCCACTCTGTGCCCAGTGGATGGGAGC	900
Qy	946	TGGAGCCCCTGGAGCAAGTGGTCCGCCCTGTGGGCTGGACTGCACCCACTGGCGGAGCCGT	1005
Db	901	TGGAGTTCTGTGGAGTAAGTGGTCAGCCTGTGGGCTTGACTGCACCCACTGGCGGAGCCGC	960
Qy	1006	GAGTGCTCTGACCCAGCACCCCGCAACGGAGGGGAGGAGTGCCAGGGCACTGACCTGGAC	1065
Db	961	GAGTGCTCTGACCCAGCACCCCGCAATGGAGGTGAGGAGTGTGGGGTGCTGACCTGGAC	1020
Qy	1066	ACCCGCAACTGTACCAAGTGACCTCTGTGTACACAGTGCTTCTGGCCCTGAGGACGTGGCC	1125
Db	1021	ACCCGCAACTGTACCAAGTGACCTCTGCCTGCACACCGCTTCTTGCCCCGAGGACGTGGCT	1080
Qy	1126	CTCTATGTGGGCCTCATCGCCGTGGCCGTCTGCCTGGTCCCTGCTGCTGCTTGTCTCATC	1185
Db	1081	CTCTACATCGGCCTTGTGCTGTGGCTGTGTGCCTCTTCTGCTGTTGCTGGCCCTTGGA	1140
Qy	1186	CTCGTTTATTGCCGGAAGAAGGAGGGGCTGGACTCAGATGTGGCTGACTCGTCCATTCTC	1245

Db	1141	CTCATTTACTGTGCGCAAGAAGGAAGGGCTGGACTCCGATGTGGCCGACTCGTCCATCCTC	1200
Qy	1246	ACCTCAGGCTTCCAGCCCGTCAGCATCAAGCCCAGCAAAGCAGACAACCCCCATCTGCTC	1305
Db	1201	ACCTCGGGCTTCCAGCCTGTGAGCATCAAGCCCAGCAAAGCAGACAACCCCCACCTGCTC	1260
Qy	1306	ACCATCCAGCCGGACCTCAGCACCACCACCACCACCTACCAGGGCAGTCTCTGTCCCCGG	1365
Db	1261	ACCATCCAGCCGAGACCTCAGCACCACCACCTACCACCTACCAGGGCAGTCTATGTTTCGAGG	1320
Qy	1366	CAGGATGGGCCCAGCCCCAAGTTCCAGCTCACCAATGGGCACCTGCTCAGCCCCCTGGGT	1425
Db	1321	CAGGATGGACCCAGCCCCAAGTTCCAGCTCTCTAATGGTCACCTGCTCAGCCCCACTGGGG	1380
Qy	1426	GGCGGCCGCCACACACTGCACCACAGCTCTCCACCTCTGAGGCCGAGGAGTTTCGTCTCC	1485
Db	1381	AGTGGCCGCCATACGTTGCACCACAGCTCACCCACCTCTGAGGCTGAGGACTTCGTCTCC	1440
Qy	1486	CGCTCTCCACCCAGAACTACTTCCGCTCCCTGCCCCGAGGCACCAGCAACATGACCTAT	1545
Db	1441	CGCTCTCCACCCAAAATACTTTCGTTCCCTGCCCCGCGGCACCAGCAACATGGCCTAC	1500
Qy	1546	GGGACCTTCAACTTCCTCGGGGGCCGGCTGATGATCCCTAATACAGGTATCAGCCTCCTC	1605
Db	1501	GGGACCTTCAACTTCCTCGGGGGCCGGCTGATGATCCCTAATACGGGGATCAGCCTCCTC	1560
Qy	1606	ATCCCCCAGATGCCATACCCCCGAGGGAAGATCTATGAGATCTACCTCACGCTGCACAAG	1665
Db	1561	ATACCCCCGGATGCCATACCCCCGAGGAAAGATCTACGAGATCTACCTCACACTGCACAAG	1620
Qy	1666	CCGGAAGACGTGAGGTTGCCCTAGCTGGCTGTCAGACCCTGCTGAGTCCCATCGTTAGC	1725
Db	1621	CCAGAAGACGTGAGGTTGCCCTAGCTGGCTGTCAGACCCTGCTGAGTCCAGTCGTTAGC	1680
Qy	1726	TGTGGACCCCCCTGGCGTCCTGCTCACCCGGCCAGTCATCCTGGCTATGGACCACTGTGGG	1785
Db	1681	TGTGGGGCCCCCAGGAGTCCTGCTCACCCGGCCAGTCATCCTTGCAATGGACCACTGTGGA	1740
Qy	1786	GAGCCCAGCCCTGACAGCTGGAGCCTGCGCCTCAAAAAGCAGTCGTGCGAGGGCAGCTGG	1845
Db	1741	GAGCCCAGCCCTGACAGCTGGAGTCTGCGCCTCAAAAAGCAGTCCTGCGAGGGCAGTTGG	1800
Qy	1846	GAGGATGTGCTGCACCTGGGCGAGGAGGCGCCCTCCACCTCTACTACTGCCAGCTGGAG	1905
Db	1801	GAGGATGTGCTGCACCTTGGTGAGGAGTCACCTTCCACCTCTACTACTGCCAGCTGGAG	1860
Qy	1906	GCCAGTGCCTGCTACGTCTTCACCGAGCAGCTGGGCGGCTTTGCCCTGGTGGGAGAGGCC	1965
Db	1861	GCCGGGGCCTGCTATGTCTTCACGGAGCAGCTGGGCGGCTTTGCCCTGGTAGGAGAGGCC	1920
Qy	1966	CTCAGCGTGGCTGCCGCCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGGTGGCCTGCACC	2025
Db	1921	CTCAGCGTGGCTGCCACCAAGCGCCTCAGGCTCCTTCTGTTTGCTCCCGTGGCCTGTACG	1980
Qy	2026	TCCCTCGAGTACAACATCCGGGTCTACTGCCTGCATGACACCCACGATGCACTCAAGGAG	2085
Db	1981	TCCCTTGAGTACAACATCCGAGTGTAAGTGCCTACACGACACCCACGACGCTCTCAAGGAG	2040

Qy 2086 GTGGTGCAGCTGGAGAAGCAGCTGGGGGGACAGCTGATCCAGGAGCCACGGGTCCTGCAC 2145  
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 Db 2041 GTGGTGCAGCTGGAGAAGCAGCTAGGTGGACAGCTGATCCAGGAGCCTCGCGTCCTGCAC 2100  
 Qy 2146 TTCAAGGACAGTTACCACAACCTGCGCCTATCCATCCACGATGTGCCCAGCTCCCTGTGG 2205  
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 Db 2101 TTCAAAGACAGTTACCACAACCTACGTCTCTCCATCCACGACGTGCCCAGCTCCCTGTGG 2160  
 Qy 2206 AAGAGTAAGCTCCTTGTCTAGCTACCAGGAGATCCCCTTTTATCACATCTGGAATGGCACG 2265  
 |||||  
 Db 2161 AAGAGCAAGCTACTTGTCTAGCTACCAGGAGATCCCCTTTTACCACATCTGGAACGGCACC 2220  
 Qy 2266 CAGCGGTACTTGCCTGCACCTTCACCCTGGAGCGTGTGAGCCCCAGCACTAGTGACCTG 2325  
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 Db 2221 CAGCAGTATCTGCCTGCACCTTCACCCTGGAGCGCATCAACGCCAGCACCAGCGACCTG 2280  
 Qy 2326 GCCTGCAAGCTGTGGGTGTGGCAGGTGGAGGGCGACGGGCAGAGCTTCAGCATCAACTTC 2385  
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 Db 2281 GCCTGCAAGGTGTGGGTGTGGCAGGTGGAGGGGAGATGGGCAGAGCTTCAACATCAACTTC 2340  
 Qy 2386 AACATCACCAAGGACACAAGGTTTGCTGAGCTGCTGGCTCTGGAGAGTGAAGCGGGGGTTC 2445  
 |||||  
 Db 2341 AACATCACTAAGGACACAAGGTTTGCTGAATTGTTGGCTCTGGAGAGTGAAGGGGGGGTTC 2400  
 Qy 2446 CCAGCCCTGGTGGGCCCCAGTGCCTTCAAGATCCCCTTCCTCATTGCGCAGAAGATAATT 2505  
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 Db 2401 CCAGCCCTGGTGGGCCCCAGTGCCTTCAAGATCCCCTTCCTCATTGCGCAAAAGATCATC 2460  
 Qy 2506 TCCAGCCTGGACCCACCCTGTAGGCGGGGTGCCGACTGGCGGACTCTGGCCCAGAACTC 2565  
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 Db 2461 GCCAGTCTGGACCCACCCTGCAGCCGGGGCGCCGACTGGAGAACTCTAGCCCAGAACTT 2520  
 Qy 2566 CACCTGGACAGCCATCTCAGCTTCTTTGCCTCCAAGCCCAGCCCCACAGCCATGATCCTC 2625  
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 Db 2521 CACCTGGACAGCCATCTTAGCTTCTTTGCCTCCAAGCCCAGCCCTACAGCCATGATCCTC 2580  
 Qy 2626 AACCTGTGGGAGGCGCGGCACTTCCCCAACGGCAACCTCAGCCAGCTGGCTGCAGCAGTG 2685  
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 Db 2581 AACCTATGGGAGGCACGGCACTTCCCCAACGGCAACCTCGGCCAGCTGGCAGCAGCTGTG 2640  
 Qy 2686 GCTGGACTGGGCCAGCCAGACGCTGGCCTCTTCACAGTGTGCGGAGGCTGAGTGCTGAGGC 2745  
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 Db 2641 GCCGGACTGGGCCAACCAGATGCTGGCCTCTTCACGGTGTGCGGAGGCCGAGTGTTGAGAC 2700  
 Qy 2746 CGGCCAG 2752  
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 Db 2701 CAGCCAG 2707

RESULT 3

US-08-808-982-2

; Sequence 2, Application US/08808982

; Patent No. 5939271

; GENERAL INFORMATION:

; APPLICANT: Tessier-Lavigne, Marc

; APPLICANT: Leonardo, E. David

```

; APPLICANT: Hink, Lindsay
; APPLICANT: Masu, Masayuki
; APPLICANT: Kazuko, Keino-Masu
; TITLE OF INVENTION: Netrin Receptors
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SCIENCE & TECHNOLOGY LAW GROUP
; STREET: 268 BUSH STREET, SUITE 3200
; CITY: SAN FRANCISCO
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 94104
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/808,982
; FILING DATE:
; CLASSIFICATION: 530
; ATTORNEY/AGENT INFORMATION:
; NAME: OSMAN, RICHARD A
; REGISTRATION NUMBER: 36,627
; REFERENCE/DOCKET NUMBER: UC96-217
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 343-4341
; TELEFAX: (415) 343-4342
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1787 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
US-08-808-982-2

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Query Match          56.8%; Score 1562.4; DB 2; Length 1787;
Best Local Similarity 98.5%; Pred. No. 0;
Matches 1661; Conservative 0; Mismatches 16; Indels 9; Gaps 8;

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Qy      1070 GCAACTGTACCAAGTGACCTCTGTGTACACAGTGCTTCTGGCCCTGAGGACGTGGCCCTCT 1129
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Db      1 GCAACTGTACCAAGTGACCTCTG-GTACACACTGCTTCTGGCCCTGAGGACGTGGCCCTCT 59

Qy      1130 ATGTGGGCCTCATCGCCGTGGCCGTCTGCCTGGTCCTGCTGCTGCTTGTCTCATCTCTCG 1189
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Db      60 ATGTGGGCCTCATCGCCGTGGCCGTCTGCCTGGTCCTGCTGCTGCTTGTCTCATCTCTCG 119

Qy      1190 TTTATTGCCGGAAGAAGGAGGGGCTGGACTCAGATGTGGCTGACTCGTCCATTCTCACCT 1249
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Db      120 TTTATTGCCGGAAGAAGGAGGGGCTGGACTCAGATGTGGCTGACTCGTCCATTCTCACCT 179

Qy      1250 CAGGCTTCCAGCCCGTCAGCATC-AAGCCCAGCAAAGCAGACAACCCCCATCTGCTCACC 1308
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Db      180 CAGGCTTCCAGCCCGTCAGCATCTAAGCCCAGCAAAGCAGACAACCCCCATCTGCTCACC 239

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Qy	1309	ATCCAGCCGGACCTCAGCACCACCACCACCACCTACCAGGGCAGTCTCTGTCCCCGGCAG	1368
Db	240	ATCCAGCCGGACCTCAGCACCACCACCACCACCTACCAGGGCAGTCTCTGTCCCCGGCAG	299
Qy	1369	GATGGGCCCAGCCCCAAGTTCCAGCTCACCAATGGGCACCTGCTCAGCCCCCTGGGTGGC	1428
Db	300	GATGGGCCCAGCCCCAAGTTCCAGCTCACCAATGGGCACCTGCTCAGCCCCCTGGGTGGC	359
Qy	1429	GGCCGCCACACACTGCACCACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTCTCCCGC	1488
Db	360	GGCCGCCACACACTGCACCACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTCTCCCGC	419
Qy	1489	CTCTCCACCCAGAATACTTCCGCTCCCTGCCCCGAGGCACCAGCAACATGACCTATGGG	1548
Db	420	CTCTCCACCCAGAATACTTCCGCTCCCTGCCCCGAGGCACCAGCAACATGACCTATGGG	479
Qy	1549	ACCTTCAACTTCCTCGGGGGCCGGCTGATGATCCCTAATACAGGTATCAGCCTCCTCATC	1608
Db	480	ACCTTCAACTTCCTCGGGGGCCGGCTGATGATCCCTAATACAGGAATCAGCCTCCTCATC	539
Qy	1609	CCCCCAGATGCCATACCCCGAGGGAAGATCTATGAGATCTACCTCACGCTGCACAAGCCG	1668
Db	540	CCCCCAGATGCCATACCCCGAGGGAAGATCTATGAGATCTACCTCACGCTGCACAAGCCG	599
Qy	1669	GAAGACGTGAGGTTGCCCCCTAGCTGGCTGTCAGACCCTGCTGAGTCCCATCGTTAGCTGT	1728
Db	600	GAAGACGTGAGGTTGCCCCCTAGCTGGCTGTCAGACCCTGCTGAGTCCCATCGTTAGCTGT	659
Qy	1729	GGACCCCCTGGCGTCCTGCTCACCCGGCCAGTCATCCTGGCTATGGACCACTGTGGGGAG	1788
Db	660	GGACCCCCTGGCGTCCTGCTCACCCGGCCAGTCATCCTGGCTATGGACCACTGTGGGGAG	719
Qy	1789	CCCAGCCCTGACAGCTGGAGCCTGCGCCTCAAAAAGCAGTCGTGCGAGGGCAGCTGGGAG	1848
Db	720	CCCAGCCCTGACAGCTGGAGCCTGGCCCTCAAAAAGCAGTCGTGCGAGGG-AGCTGGGAG	778
Qy	1849	GATGTGCTGCACCTGGGCGAGGAGGCGCCCTCCACCTCTACTACTGCCAGCTGGAGGCC	1908
Db	779	GATGT-CTGCACCTGGGCGAGGAGGCGCCCTCCACCTCTACTACTGCCAGCTGGAGGCC	837
Qy	1909	AGTGCCTGCTACGTCTTCACCGAGCAGCTGGGCCGCTTTGCCCTGGTGGGAGAGGCCCTC	1968
Db	838	AGTGCCTGCTACGTCTTCACCGAGCAGCTGGGCCGCTTTGCCCTGGTGGGAGAGGCCCTC	897
Qy	1969	AGCGTGGCTGCCGCCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGGTGGCCTGCACCTCC	2028
Db	898	AGCGTGGCTGCCGCCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGGTGGCCTGCACCTCC	957
Qy	2029	CTCGAGTACAACATCCGGGTCTACTGCCTGCATGACACCCACGATGCACTCAAGGAGGTG	2088
Db	958	CTCGAGTACAACATCCGGGTCTACTGCCTGCATGACACCCACGATGCACTCAAGGAGGTG	1017
Qy	2089	GTGCAGCTGGAGAAGCAGCTGGGGGGACAGCTGATCCAGGAGCCACGGGTCCTGCACTTC	2148
Db	1018	GTGCAGCTGGAGAAGCAGCTGGGGGGACAGCTGATCCAGGAGCCACGGGTCCTGCACTTC	1076
Qy	2149	AAGGACAGTTACCACAACCTGCGCCTATCCATCCACGATGTGCCAGCTCCCTGTGGAAG	2208





```

;      ADDRESSEE: SCIENCE & TECHNOLOGY LAW GROUP
;      STREET: 268 BUSH STREET, SUITE 3200
;      CITY: SAN FRANCISCO
;      STATE: CALIFORNIA
;      COUNTRY: USA
;      ZIP: 94104
;
;      COMPUTER READABLE FORM:
;      MEDIUM TYPE: Floppy disk
;      COMPUTER: IBM PC compatible
;      OPERATING SYSTEM: PC-DOS/MS-DOS
;      SOFTWARE: PatentIn Release #1.0, Version #1.30
;
;      CURRENT APPLICATION DATA:
;      APPLICATION NUMBER: US/09/306,902A
;      FILING DATE: 07-May-1999
;      CLASSIFICATION: <Unknown>
;
;      ATTORNEY/AGENT INFORMATION:
;      NAME: OSMAN, RICHARD A
;      REGISTRATION NUMBER: 36,627
;      REFERENCE/DOCKET NUMBER: UC96-217
;
;      TELECOMMUNICATION INFORMATION:
;      TELEPHONE: (415) 343-4341
;      TELEFAX: (415) 343-4342
;
;      INFORMATION FOR SEQ ID NO: 2:
;      SEQUENCE CHARACTERISTICS:
;      LENGTH: 1787 base pairs
;      TYPE: nucleic acid
;      STRANDEDNESS: double
;      TOPOLOGY: linear
;
;      MOLECULE TYPE: cDNA
;
;      SEQUENCE DESCRIPTION: SEQ ID NO: 2:
US-09-306-902A-2

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Query Match          56.8%;  Score 1562.4;  DB 3;  Length 1787;
Best Local Similarity 98.5%;  Pred. No. 0;
Matches 1661;  Conservative 0;  Mismatches 16;  Indels 9;  Gaps 8;

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Qy      1070 GCAACTGTACCAAGTGACCTCTGTGTACACAGTGCTTCTGGCCCTGAGGACGTGGCCCTCT 1129
          ||||||||||||||||||| ||||| |||||||||||||||||||
Db            1 GCAACTGTACCAAGTGACCTCTG-GTACACACTGCTTCTGGCCCTGAGGACGTGGCCCTCT 59

Qy      1130 ATGTGGGCCTCATCGCCGTGGCCGTCTGCCTGGTCCTGCTGCTGCTTGTCCCTCATCCTCG 1189
          ||||||||||||||||||| |||||||||||||||||||
Db            60 ATGTGGGCCTCATCGCCGTGGCCGTCTGCCTGGTCCTGCTGCTGCTTGTCCCTCATCCTCG 119

Qy      1190 TTTATTGCCGGAAGAAGGAGGGGCTGGACTCAGATGTGGCTGACTCGTCCATTCTCACCT 1249
          ||||||||||||||||||| |||||||||||||||||||
Db            120 TTTATTGCCGGAAGAAGGAGGGGCTGGACTCAGATGTGGCTGACTCGTCCATTCTCACCT 179

Qy      1250 CAGGCTTCCAGCCCGTCAGCATC-AAGCCCAGCAAAGCAGACAACCCCATCTGCTCACC 1308
          ||||||||||||||||||| |||||||||||||||||||
Db            180 CAGGCTTCCAGCCCGTCAGCATCTAAGCCCAGCAAAGCAGACAACCCCATCTGCTCACC 239

Qy      1309 ATCCAGCCGGACCTCAGCACCACCACCACCTACCAGGGCAGTCTCTGTCCCCGGCAG 1368
          ||||||||||||||||||| |||||||||||||||||||
Db            240 ATCCAGCCGGACCTCAGCACCACCACCACCTACCAGGGCAGTCTCTGTCCCCGGCAG 299

Qy      1369 GATGGGCCCAGCCCCAAGTTCCAGCTACCAATGGGCACCTGCTCAGCCCCCTGGGTGGC 1428

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Db	300	 GATGGGCCCAGCCCCAAGTTCCAGCTCACCAATGGGCACCTGCTCAGCCCCCTGGGTGGC	359
Qy	1429	GGCCGCCACACACTGCACCACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTCTCCCGC	1488
Db	360	 GGCCGCCACACACTGCACCACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTCTCCCGC	419
Qy	1489	CTCTCCACCCAGAACTACTTCCGCTCCCTGCCCCGAGGCACCAGCAACATGACCTATGGG	1548
Db	420	 CTCTCCACCCAGAACTACTTCCGCTCCCTGCCCCGAGGCACCAGCAACATGACCTATGGG	479
Qy	1549	ACCTTCAACTTCCTCGGGGGCCGGCTGATGATCCCTAATACAGGTATCAGCCTCCTCATC	1608
Db	480	 ACCTTCAACTTCCTCGGGGGCCGGCTGATGATCCCTAATACAGGAATCAGCCTCCTCATC	539
Qy	1609	CCCCCAGATGCCATACCCCCGAGGGAAGATCTATGAGATCTACCTCACGCTGCACAAGCCG	1668
Db	540	 CCCCCAGATGCCATACCCCCGAGGGAAGATCTATGAGATCTACCTCACGCTGCACAAGCCG	599
Qy	1669	GAAGACGTGAGGTTGCCCCCTAGCTGGCTGTCAGACCCTGCTGAGTCCCATCGTTAGCTGT	1728
Db	600	 GAAGACGTGAGGTTGCCCCCTAGCTGGCTGTCAGACCCTGCTGAGTCCCATCGTTAGCTGT	659
Qy	1729	GGACCCCCTGGCGTCCTGCTCACCCGGCCAGTCATCCTGGCTATGGACCACTGTGGGGAG	1788
Db	660	 GGACCCCCTGGCGTCCTGCTCACCCGGCCAGTCATCCTGGCTATGGACCACTGTGGGGAG	719
Qy	1789	CCCAGCCCTGACAGCTGGAGCCTGCGCCTCAAAAAGCAGTCGTGCGAGGGCAGCTGGGAG	1848
Db	720	 CCCAGCCCTGACAGCTGGAGCCTGGCCCTCAAAAAGCAGTCGTGCGAGGG-AGCTGGGAG	778
Qy	1849	GATGTGCTGCACCTGGGCGAGGAGGCGCCCTCCACCTCTACTACTGCCAGCTGGAGGCC	1908
Db	779	 GATGT-CTGCACCTGGGCGAGGAGGCGCCCTCCACCTCTACTACTGCCAGCTGGAGGCC	837
Qy	1909	AGTGCCTGCTACGTCTTCACCGAGCAGCTGGGCCGCTTTGCCCTGGTGGGAGAGGCCCTC	1968
Db	838	 AGTGCCTGCTACGTCTTCACCGAGCAGCTGGGCCGCTTTGCCCTGGTGGGAGAGGCCCTC	897
Qy	1969	AGCGTGGCTGCCGCCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGGTGGCCTGCACCTCC	2028
Db	898	 AGCGTGGCTGCCGCCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGGTGGCCTGCACCTCC	957
Qy	2029	CTCGAGTACAACATCCGGGTCTACTGCCTGCATGACACCCACGATGCACTCAAGGAGGTG	2088
Db	958	 CTCGAGTACAACATCCGGGTCTACTGCCTGCATGACACCCACGATGCACTCAAGGAGGTG	1017
Qy	2089	GTGCAGCTGGAGAAGCAGCTGGGGGGACAGCTGATCCAGGAGCCACGGGTCCTGCACTTC	2148
Db	1018	 GTGCAGCTGGAGAAGCAGCTGGGGGGACAGCTGATCCAGGAGCCACGGGTCCTGCACTTC-	1076
Qy	2149	AAGGACAGTTACCACAACCTGCGCCTATCCATCCACGATGTGCCCAGCTCCCTGTGGAAG	2208
Db	1077	 AAGGACAGTTACCACAACCT--GCCCTATCATCCACGATGTGCCCAGCTCCCTGTGGAAG	1134
Qy	2209	AGTAAGCTCCTTGTGAGCTACCAGGAGATCCCCCTTTTATCACATCTGGAATGGCACGCAG	2268

Db 1135 AGTAAGCTCCTTGTCAGCTACCAGGAGATCCCCTTTTATCACATCTGGAATGGCACGCAG 1194  
 Qy 2269 CGGTACTTGCACTGCACCTTCACCCTGGAGCGTGTGAGCCCCAGCACTAGTGACCTGGCC 2328  
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 Db 1195 CGGTACTTGCACTGCACCTTCACCCTGGAGCGTGTGAGCCCCAGCACTAGTGACCTGGCC 1254  
 Qy 2329 TGCAAGCTGTGGGTGTGGCAGGTGGAGGGCGACGGGCAGAGCTTCAGCATCAACTTCAAC 2388  
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 Db 1255 TGCAAGCTGTGGGTGTGGCAGGTGGAGGGCGACGGGCAGAGCTTCAGCATCAACTTCAAC 1314  
 Qy 2389 ATCACCAAGGACACAAGGTTTGTGAGCTGCTGGCTCTGGAGAGTGAAGCGGGGGTCCCA 2448  
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 Db 1315 ATCACCAAGGACACAAGGTTTGTGAGCTGCTGGCTCTGGAGAGTGAAGCGGGGGTCCCA 1374  
 Qy 2449 GCCCTGGTGGGCCCCAGTGCCTTCAAGATCCCCTTCCTCATTGGCAGAGATAATTTCC 2508  
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 Db 1375 GCCCTGGTGGGCCCCAGTGCCTTCAAGATCCCCTTCCTCATTGGCAGAGATAATTTCC 1434  
 Qy 2509 AGCCTGGACCCACCCTGTAGGCGGGGTGCCGACTGGCGGACTCTGGCCCAGAACTCCAC 2568  
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 Db 1435 AGCCTGGACCCACCCTGTAGGCGGGGTGCCGACTGGCGGACTCTGGCCCAGAACTCCAC 1494  
 Qy 2569 CTGGACAGCCATCTCAGCTTCTTTGCCTCCAAGCCCAGCCCCACAGCCATGATCCTCAAC 2628  
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 Qy 2629 CTGTGGGAGGCGCGGCACTTCCCCAACGGCAACCTCAGCCAGCTGGCTGCAGCAGTGGCT 2688  
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 Db 1555 CTGTGGGAGGCGCGGCACTTCCCCAACGGCAACCTCAGCCAGCTGGCTGCAGCAGTGGCT 1614  
 Qy 2689 GGACTGGGCCAGCCAGACGCTGGCCTC-TTCACAGTG-TCGGAGGCTGAGTGCTGAGGCC 2746  
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 Db 1615 GGGACTGGCCAGCAGGACGGTGGCTTCTTTACAGTGTTTCGGAGGCTGAGTGCTGAGGCC 1674  
 Qy 2747 GGCCAG 2752  
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 Db 1675 GGCCAG 1680

RESULT 5

US-08-808-982-3

; Sequence 3, Application US/08808982

; Patent No. 5939271

; GENERAL INFORMATION:

; APPLICANT: Tessier-Lavigne, Marc

; APPLICANT: Leonardo, E. David

; APPLICANT: Hink, Lindsay

; APPLICANT: Masu, Masayuki

; APPLICANT: Kazuko, Keino-Masu

; TITLE OF INVENTION: Netrin Receptors

; NUMBER OF SEQUENCES: 8

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: SCIENCE & TECHNOLOGY LAW GROUP

; STREET: 268 BUSH STREET, SUITE 3200

; CITY: SAN FRANCISCO

; STATE: CALIFORNIA

; COUNTRY: USA

```

; ZIP: 94104
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/808,982
; FILING DATE:
; CLASSIFICATION: 530
; ATTORNEY/AGENT INFORMATION:
; NAME: OSMAN, RICHARD A
; REGISTRATION NUMBER: 36,627
; REFERENCE/DOCKET NUMBER: UC96-217
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 343-4341
; TELEFAX: (415) 343-4342
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2831 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
US-08-808-982-3

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Query Match          30.6%; Score 841.4; DB 2; Length 2831;
Best Local Similarity 60.0%; Pred. No. 1.3e-178;
Matches 1638; Conservative 0; Mismatches 961; Indels 130; Gaps 9;

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Qy      143 ACCCAGTGCCTGGTGCCAACCCGGACCTGCTTCCCCACTTCCTGGTGGAGCCCCGAGGATG 202
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Db      104 ACTCCTTCCCATCAGCACCCGCGGAGCAGCTGCCTCACTTCCTGCTGGAACCAGAGGATG 163

Qy      203 TGTACATCGTCAAGAACAAGCCAGTGCTGCTTGTGTGCAAGGCCGTGCCCCGCCACGCAGA 262
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Db      164 CCTACATCGTAAAGAACAAGCCAGTGGAATTGCACTGCCGAGCCTTCCCTGCCACACAGA 223

Qy      263 TCTTCTTCAAGTGCAACGGGGAGTGGGTGCGCCAGGTGGACCACGTGATCGAGCGCAGCA 322
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Db      224 TCTACTTCAAGTGTAATGGCGAGTGGGTAGCCAGAAAGGCCACGTACGCAGGAGAGCC 283

Qy      323 CAGACGGGAGCAGTGCGGCTGCCCACCATGGAGGTCCGCATTAATGTCTCAAGGCAGCAGG 382
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Db      284 TGGATGAGGCCACAGGCTTGCGAATACGAGAGGTGCAGATAGAGGTGTCGCGGCAGCAGG 343

Qy      383 TCGAGAAGGTGTTGCGGCTGGAGGAATACTGGTGCCAGTGCGTGGCATGGAGCTCCTCGG 442
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Db      344 TGGAGGAACCTTTTGGGCTCGAGGACTACTGGTGTCACTGCGTGGCCTGGAGCTCTTCGG 403

Qy      443 GCACCACCAAGAGTCAGAAGGCCCTACATCCGCATAGCCAGATTGCGCAAGAACTTCGAGC 502
        | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db      404 GAACCACCAAGAGTCGCCGAGCCTACATCCGCATTGCCTACTTGCGCAAGAACTTTGACC 463

Qy      503 AGGAGCCGCTGGCCAAGGAGGTGTCCCTGGAGCAGGGCATCGTGCTGCCCTGCCGTCCAC 562
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Db      464 AGGAGCCTCTGGCGAAGGAGGTACCCTTGGATCATGAGGTCCTTCTGCAGTGCCGCCCCAC 523

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Qy	563	CGGAGGGGCATCCCTCCAGCCGAGGTGGAGTGGCTCCGGAACGAGGACCTGGTGGACCCGT	622
Db	524	CAGAGGGGAGTGCCTGTGGCTGAGGTGGAATGGCTCAAGAATGAAGATGTCATCGATCCCG	583
Qy	623	CCCTGGACCCCAATGTATACATCACGCGGGAGCACAGCCTGGTGGTGCACAGGCCCGCC	682
Db	584	CTCAGGACACTAACTTCCTGCTCACCATTGACCACAACCTCATCATCCGCCAGGCGCGCC	643
Qy	683	TTGCTGACACGGCCAACTACACCTGCGTGGCCAAGAACATCGTGGCACGTCGCCGAGCG	742
Db	644	TCTCAGACACAGCCAACTACACCTGTGTGGCAAAGAATATTGTGGCCAAGCGCCGGAGCA	703
Qy	743	CCTCCGCTGCTGTTCATCGTCTACGTGAACGGTGGGTGGTTCGACGTGGACCGAGTGGTCCG	802
Db	704	CGACGGCCACAGTCATCGTCTATGTGAACGGAGGTTGGTCCAGCTGGGCAGAATGGTCAC	763
Qy	803	TCTGCAGCGCCAGCTGTGGGCGCGGCTGGCAGAAACGGAGCCGGAGCTGCACCAACCCGG	862
Db	764	CCTGCTCTAACCGCTGCGGCCGAGGTTGGCAGAAACGTACTAGGACCTGCACCAACCCAG	823
Qy	863	CGCCTCTCAACGGGGGCGCTTTCTGTGAGGGGCAGAATGTCCAGAAAACAGCCTGCGCCA	922
Db	824	CCCCACTCAATGGAGGTGCCTTCTGCGAGGGACAGGCTTGCCAGAAGACGGCTTGACCA	883
Qy	923	CCCTGTGCCCAGTAGACGGCAGCTGGAGCCCGTGGAGCAAGTGGTCCGCCTGTGGGCTGG	982
Db	884	CCGTGTGCCCAGTGGATGGAGCGTGGACTGAGTGGAGCAAGTGGTCCGCCTGCAGCACAG	943
Qy	983	ACTGCACCCACTGGCGGAGCCGTGAGTGTCTGACCCAGCACCCCGCAACGGAGGGGAGG	1042
Db	944	AGTGTGCGCACTGGCGCAGCCGCGAGTGCATGGCACCGCCGCCCCAGAACGGAGGCCGTG	1003
Qy	1043	AGTGCCAGGGCACTGACCTGGACACCCGCAACTGTACCAGTGACCTCTGTGTACACAGTG	1102
Db	1004	ACTGCAGCGGGACGCTACTTGACTCCAAGAACTGCACCGATGGGCTGTGCGTGTGAATC	1063
Qy	1103	CTTCTGGCC-----CTGAGGACGTGGCCCTCT	1129
Db	1064	AGAGAACTCTAAACGACCCTAAAAGCCGCCCCCTGGAGCCGTGCGGAGACGTGGCGCTGT	1123
Qy	1130	ATGTGGGCCTC---ATCGCCGTGGCCGTCTGCCTGGTCTGCTGCTGCTTGTCTCATCC	1186
Db	1124	ATGCGGGCCTCGTGGTGGCCGTCTTTGTGGTTCCTGGCAGTCTCATGGCTGTAGGAGTGA	1183
Qy	1187	TCGTTTATTGCCGGAAGAAGGAGGGGCTGGACTCAGATGTGGCTGACTCGTCCATT---C	1243
Db	1184	TCGTGTACCGGAGAACTGCCGGGACTTCGACACGGACATCACTGACTCCTCTGCTGCCC	1243
Qy	1244	TCACCTCAGGCTTCCAGCCCGTCAGCATCAAGCCAGCAAAGCAGACAACCCCCATCTGC	1303
Db	1244	TCACTGGTGGTTTCCACCCCGTCAACTTCAAGACTGCAAGGCCAGCAACCCACAGCTCC	1303
Qy	1304	T-----CACCATCCAGCCGACCTCAGCACCACCACCACCACCTACCAGGGCAGTCTCT	1357
Db	1304	TGCACCCATCCGCCCTCCGGACCTAACGGCCAGTGTGGCATCTACCGCGGACCTGTGT	1363

Qy	1358	GTCCCCGGGCAGGA-----TG	1372
Db	1364	ATGCCCTGCAGGACTCTGCCGACAAGATCCCTATGACTAATTCACCCCTTCTGGATCCCT	1423
Qy	1373	GGCCCAGCCCCAAGTTCAGCTCACCAATGGGCACCTGCTCAGCCC-----CCTGG	1423
Db	1424	TGCCCAGCCTCAAGATCAAGGTCTATGACTCCAGCACCATCGGCTCTGGGGCTGGCCTGG	1483
Qy	1424	GTGGCGGGCCGCCACACACTGCACCACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTCT	1483
Db	1484	CTGATGGAGCCGACCTGCTGGGTGTCTTACCACCCGGTACATACCCAGGCGATTCTCCC	1543
Qy	1484	CCCGCCTCTCCACCCAGAAC-----TACTTCCGCTCCC	1516
Db	1544	GGGACACCCACTTCCTGCACCTGCGCAGCGCCAGCCTTGTTCCACAGCACCCTCCTGGGCC	1603
Qy	1517	TGCCCCGAGGCACCAGCAACATGACCTATGGGACCTTCAACTTCTCGGGGGCCGGCTGA	1576
Db	1604	TCCCTCGAGACCCAGCAGCAGTGTGAGTGGCACCTTTGGTGCCTGGGTGGGAGGCTGA	1663
Qy	1577	TGATCCCTAATACAGGTATCAGCCTCCTCATCCCCCAGATGCCATACCCCGAGGGAAGA	1636
Db	1664	CCATTCCCGGCACAGGGGTGAGCCTGTTGGTACCAAATGGAGCCATTCCCCAGGGCAAGT	1723
Qy	1637	TCTATGAGATCTACCTCACGCTGCACAAGCCGGAAGACGTGAGGTTGCCCTAGCTGGCT	1696
Db	1724	TCTATGACTTGTATCTACGTATCAACAAGACTGAAAGCACCCCTCCCACTTTCGGAAGGTT	1783
Qy	1697	GTCAGACCCTGCTGAGTCCCATCGTTAGCTGTGGACCCCTGGCGTCTGCTCACCCGGC	1756
Db	1784	CCCAGACAGTATTGAGCCCCCTCGGTGACCTGCGGGCCCACGGGCCTCCTCCTGTGCCGCC	1843
Qy	1757	CAGTCATCCTGGCTATGGACCACTGTGGGGAGCCCAGCCCTGACAGCTGGAGCCTGCGCC	1816
Db	1844	CTGTTGTCTCACTGTGCCCCACTGTGCTGAAGTCATTGCCGGAGACTGGATCTTCCAGC	1903
Qy	1817	TCAAAAAGCAGTCGTGCGAGGGCAGCTGGGAGGATGTGCTGCACCTGGGCGAGGAGGCGC	1876
Db	1904	TCAAGACCCAGGCCCATCAGGGCCACTGGGAGGAGGTGGTGACTTTGGATGAGGAGACTC	1963
Qy	1877	CCTCCCACCTCTACTACTGCCAGCTGGAGGCCAGTGCCTGCTACGTCTTCACCGAGCAGC	1936
Db	1964	TGAACACCCCCCTGCTACTGCCAGCTAGAGGCTAAATCCTGCCACATCCTGTTGGACCAGC	2023
Qy	1937	TGGGCCGCTTTGCCCTGGTGGGAGAGGCCCTCAGCGTGGCTGCCGCCAAGCGCCTCAAGC	1996
Db	2024	TGGGTACCTACGTGTTACAGGGCGAGTCCTACTCCCGCTCCGAGTCAAGCGGCTCCAGC	2083
Qy	1997	TGCTTCTGTTTGCGCCGGTGGCCTGCACCTCCCTCGAGTACAACATCCGGGTCTACTGCC	2056
Db	2084	TAGCCATCTTCGCCCCAGCCCTCTGCACCTCCCTGGAGTATAGTCTCAGGGTCTACTGTC	2143
Qy	2057	TGCATGACACCCACGATGCACTCAAGGAGGTGGTGCAGCTGGAGAAGCAGCTGGGGGGAC	2116
Db	2144	TGGAGGACACTCCTGCAGCACTGAAGGAGGTCTAGAGCTGGAGAGGACTCTGGGTGGCT	2203
Qy	2117	AGCTGATCCAGGAGCCACGGGTCTGCACTTCAAGGACAGTTACCACAACCTGCGCCTAT	2176

Db	2204	ACTTGGTGGAGGAGCCCAAGACTTTGCTCTTTAAGGACAGTTACCACAACCTACG-CTCT	2262
Qy	2177	CCATCCACGATGTGCCCAGCTCCCTGTGGAAGAGTAAGCTCCTTGTGCTAGCTACCAGGAGA	2236
Db	2263	CCCTCCATGACATCCCCCATGCCCCTGGAGGAGCAAAGCTACTGGCCAAGTACCAGGAGA	2322
Qy	2237	TCCCCTTTTATCACATCTGGAATGGCAGCAGCGGTACTTGCACTGCACCTTCACCCTGG	2296
Db	2323	TTCCCTTCTACCATGTGTGGAACGGCAGCCAGAAAGCCCTGCACTGCACTTTACCCTGG	2382
Qy	2297	AGCGTGTGAGCCCCAGCACTAGTGACCTGGCCTGCAAGCTGTGGGTGTGGCAGGTGGAGG	2356
Db	2383	AGAGACATAGCCTAGCCTCCACTGAGTTCACCTGTAAGGTCTGCGTGCGGCAGGTAGAAG	2442
Qy	2357	GCGACGGGCAGAGCTTCAGCATCAACTTCAACATCAC---CAAGGACACAAGGTTTGCTG	2413
Db	2443	GGGAAGGCCAGATTTTCCAGCTGCACACCACGCTGGCTGAGACGCCTGCTGGCTCCCTGG	2502
Qy	2414	AGCTGCTGGCTCTGGAGAGTGAAGCGGGGGTCCCAGCCCTGGTGGGCCCCAGTGCCTTCA	2473
Db	2503	ATGCACTCTGCTCTGCCCCTGGCAATGCTGCCACCACACAGCTGGGACCCTATGCCTTCA	2562
Qy	2474	AGATCCCCTTCCTCATTCGGCAGAAGATAATTTCCAGCCTGGACCCACCCTGTAGGCGGG	2533
Db	2563	AGATAACCACTGTCCATCCGCCAGAAGATCTGCAACAGCCTGGACGCCCCCACTCACGGG	2622
Qy	2534	GTGCCGACTGGCGGACTCTGGCCCAGAACTCCACCTGGACAGCCATCTCAGCTTCTTTG	2593
Db	2623	GCAATGACTGGCGGCTGTTGGCACAGAAGCTCTCCATGGACCGGTACCTGAAGTACTTCG	2682
Qy	2594	CCTCCAAGCCCAGCCCCACAGCCATGATCCTCAACCTGTGGGAGGCGCGGCACTTCCCCA	2653
Db	2683	CCACCAAAGCTAGTCCCACAGGCGTGATCTTAGACCTCTGGGAAGCTCGGCAGCAGGATG	2742
Qy	2654	ACGGCAACCTCAGCCAGCTGGCTGCAGCAGTGGCTGGACTGGGCCAGCCAGACGCTGGCC	2713
Db	2743	ATGGGGACCTCAACAGCCTGGCCAGTGCCTTGGAGGAGATGGGCAAGAGTGAGATGCTGG	2802
Qy	2714	TCTTCACAGTGTGCGGAGGCTGAGTGCTGA	2742
Db	2803	TAGCCATGACCACTGATGGCGATTGCTGA	2831

RESULT 6

US-09-306-902A-3

; Sequence 3, Application US/09306902A

; Patent No. 6277585

; GENERAL INFORMATION:

; APPLICANT: Tessier-Lavigne, Marc

; Leonardo, E. David

; Hink, Lindsay

; Masu, Masayuki

; Kazuko, Keino-Masu

; TITLE OF INVENTION: Netrin Receptors

; NUMBER OF SEQUENCES: 9

; CORRESPONDENCE ADDRESS:

```

;      ADDRESSEE: SCIENCE & TECHNOLOGY LAW GROUP
;      STREET: 268 BUSH STREET, SUITE 3200
;      CITY: SAN FRANCISCO
;      STATE: CALIFORNIA
;      COUNTRY: USA
;      ZIP: 94104
;
;      COMPUTER READABLE FORM:
;      MEDIUM TYPE: Floppy disk
;      COMPUTER: IBM PC compatible
;      OPERATING SYSTEM: PC-DOS/MS-DOS
;      SOFTWARE: PatentIn Release #1.0, Version #1.30
;
;      CURRENT APPLICATION DATA:
;      APPLICATION NUMBER: US/09/306,902A
;      FILING DATE: 07-May-1999
;      CLASSIFICATION: <Unknown>
;
;      ATTORNEY/AGENT INFORMATION:
;      NAME: OSMAN, RICHARD A
;      REGISTRATION NUMBER: 36,627
;      REFERENCE/DOCKET NUMBER: UC96-217
;
;      TELECOMMUNICATION INFORMATION:
;      TELEPHONE: (415) 343-4341
;      TELEFAX: (415) 343-4342
;
;      INFORMATION FOR SEQ ID NO: 3:
;      SEQUENCE CHARACTERISTICS:
;      LENGTH: 2831 base pairs
;      TYPE: nucleic acid
;      STRANDEDNESS: double
;      TOPOLOGY: linear
;
;      MOLECULE TYPE: cDNA
;      SEQUENCE DESCRIPTION: SEQ ID NO: 3:
US-09-306-902A-3

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Query Match          30.6%;  Score 841.4;  DB 3;  Length 2831;
Best Local Similarity 60.0%;  Pred. No. 1.3e-178;
Matches 1638;  Conservative 0;  Mismatches 961;  Indels 130;  Gaps 9;

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Qy      143 ACCCAGTGCCTGGTGCCAACCCGGACCTGCTTCCCCACTTCCTGGTGGAGCCCGAGGATG 202
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Qy      203 TGTACATCGTCAAGAACAAGCCAGTGCTGCTTGTGTGCAAGGCCGTGCCCCGCCACGCAGA 262
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Db      164 CCTACATCGTAAAGAACAAGCCAGTGGAATTGCACTGCCGAGCCTTCCCTGCCACACAGA 223

Qy      263 TCTTCTTCAAGTGCAACGGGGAGTGGGTGCGCCAGGTGGACCACGTGATCGAGCGCAGCA 322
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Qy      323 CAGACGGGAGCAGTGGGCTGCCCACCATGGAGGTCCGCATTAATGTCTCAAGGCAGCAGG 382
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Db      284 TGGATGAGGCCACAGGCTTGCGAATACGAGAGGTGCAGATAGAGGTGTCGCGGCAGCAGG 343

Qy      383 TCGAGAAGGTGTTCTGGGCTGGAGGAATACTGGTGCCAGTGCGTGGCATGGAGCTCCTCGG 442
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Db      344 TGGAGGAACTTTTTGGGCTCGAGGACTACTGGTGTCAGTGCGTGGCCTGGAGCTCTTCGG 403

Qy      443 GCACCACCAAGAGTCAGAAGGCCTACATCCGCATAGCCAGATTGCGCAAGAACTTCGAGC 502

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Db 404 GAACCACCAAGAGTCGCCGAGCCTACATCCGCATTGCCTACTTGCGCAAGAACTTTGACC 463  
 Qy 503 AGGAGCCGCTGGCCAAGGAGGTGTCCCTGGAGCAGGGCATCGTGCTGCCCTGCCGTCCAC 562  
 Db 464 AGGAGCCTCTGGCGAAGGAGGTACCCTTGGATCATGAGGTCCTTCTGCAGTGCCGCCAC 523  
 Qy 563 CGGAGGGCATCCCTCCAGCCGAGGTGGAGTGGCTCCGGAACGAGGACCTGGTGGACCCGT 622  
 Db 524 CAGAGGGAGTGCCTGTGGCTGAGGTGGAATGGCTCAAGAATGAAGATGTCATCGATCCCG 583  
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 Qy 743 CCTCCGCTGCTGTCATCGTCTACGTGAACGGTGGGTGGTTCGACGTGGACCGAGTGGTCCG 802  
 Db 704 CGACGGCCACAGTCATCGTCTATGTGAACGGAGGTTGGTCCAGCTGGGCAGAATGGTCAC 763  
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 Db 764 CCTGCTCTAACCGCTGCGGCCGAGGTTGGCAGAAACGTACTAGGACCTGCACCAACCCAG 823  
 Qy 863 CGCCTCTCAACGGGGGCGCTTTCTGTGAGGGGCGAGAATGTCCAGAAAACAGCCTGCGCCA 922  
 Db 824 CCCCCTCAATGGAGGTGCCTTCTGCGAGGGACAGGCTTGCCAGAAGACGGCTTGACCA 883  
 Qy 923 CCCTGTGCCCAGTAGACGGCAGCTGGAGCCCGTGGAGCAAGTGGTCCGCCTGTGGGCTGG 982  
 Db 884 CCGTGTGCCCAGTGGATGGAGCGTGGACTGAGTGGAGCAAGTGGTCCGCCTGCAGCACAG 943  
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 Db 944 AGTGTGCGCACTGGCGCAGCCGCGAGTGCATGGCACCGCCGCCCCAGAACGGAGGCCGTG 1003  
 Qy 1043 AGTGCCAGGGCACTGACCTGGACACCCGCAACTGTACCAGTGACCTCTGTGTACACAGTG 1102  
 Db 1004 ACTGCAGCGGGACGCTACTTGACTCCAAGAACTGCACCGATGGGCTGTGCGTGCTGAATC 1063  
 Qy 1103 CTTCTGGCC-----CTGAGGACGTGGCCCTCT 1129  
 Db 1064 AGAGAACTCTAAACGACCCTAAAAGCCGCCCTGGAGCCGTCGGGAGACGTGGCGCTGT 1123  
 Qy 1130 ATGTGGGCCTC---ATCGCCGTGGCCGTCTGCCTGGTCTGCTGCTGCTGTCTCATCC 1186  
 Db 1124 ATGCGGGCCTCGTGGTGGCCGTCTTTGTGGTTCTGGCAGTTCTCATGGCTGTAGGAGTGA 1183  
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 Db 1184 TCGTGTACCGGAGAACTGCCGGGACTTCGACACGGACATCACTGACTCCTCTGCTGCCC 1243  
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Db 1244 TCACTGGTGGTTTTCCACCCCGTCAACTTCAAGACTGCAAGGCCAGCAACCCACAGCTCC 1303  
 Qy 1304 T-----CACCATCCAGCCGGACCTCAGCACCACCACCACCACCTACCAGGGCAGTCTCT 1357  
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 Db 1304 TGCACCCATCCGCCCCTCCGGACCTAACGGCCAGTGTGGCATCTACCGCGGACCTGTGT 1363  
 Qy 1358 GTCCCCGGCAGGA-----TG 1372  
 | | | | | | | | | | | | | | | | | | | | | |  
 Db 1364 ATGCCCTGCAGGACTCTGCCGACAAGATCCCTATGACTAATTACCCCTTCTGGATCCCT 1423  
 Qy 1373 GGCCAGCCCCAAGTTCCAGCTCACCAATGGGCACCTGCTCAGCCC-----CCTGG 1423  
 | | | | | | | | | | | | | | | | | | | | | |  
 Db 1424 TGCCAGCCTCAAGATCAAGGTCTATGACTCCAGCACCATCGGCTCTGGGGCTGGCCTGG 1483  
 Qy 1424 GTGGCGGCCGCCACACACTGCACCACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTCT 1483  
 | | | | | | | | | | | | | | | | | | | | | |  
 Db 1484 CTGATGGAGCCGACCTGCTGGGTGTCTTACCACCCGGTACATACCCAGGCGATTTCTCCC 1543  
 Qy 1484 CCCGCCTCTCCACCCAGAAC-----TACTTCCGCTCCC 1516  
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 Db 1544 GGGACACCCACTTCTGCACCTGCGCAGCGCCAGCCTTGGTTCCCAGCACCTCCTGGGCC 1603  
 Qy 1517 TGCCCCGAGGCACCAGCAACATGACCTATGGGACCTTCAACTTCCTCGGGGGCCGGCTGA 1576  
 | | | | | | | | | | | | | | | | | | | | | |  
 Db 1604 TCCCTCGAGACCCAGCAGCAGTGTGAGTGGCACCTTTGGTTGCCTGGGTGGGAGGCTGA 1663  
 Qy 1577 TGATCCCTAATACAGGTATCAGCCTCCTCATCCCCCAGATGCCATACCCCGAGGGAAGA 1636  
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 Db 1664 CCATTCCCGGCACAGGGGTGAGCCTGTTGGTACCAAATGGAGCCATTCCCCAGGGCAAGT 1723  
 Qy 1637 TCTATGAGATCTACCTCAGCTGCACAAGCCGGAAGACGTGAGGTTGCCCTAGCTGGCT 1696  
 | | | | | | | | | | | | | | | | | | | | | |  
 Db 1724 TCTATGACTTGTATCTACGTATCAACAAGACTGAAAGCACCTCCCACTTTTCGGAAGGTT 1783  
 Qy 1697 GTCAGACCTGCTGAGTCCCATCGTTAGCTGTGGACCCCTGGCGTCCTGCTCACCCGGC 1756  
 | | | | | | | | | | | | | | | | | | | | | |  
 Db 1784 CCCAGACAGTATTGAGCCCCTCGGTGACCTGCGGGCCACGGGCCTCCTCCTGTGCCGCC 1843  
 Qy 1757 CAGTCATCCTGGCTATGGACCACTGTGGGGAGCCCAGCCCTGACAGCTGGAGCCTGCGCC 1816  
 | | | | | | | | | | | | | | | | | | | | | |  
 Db 1844 CTGTTGTCTCACTGTGCCCCACTGTGCTGAAGTCATTGCCGGAGACTGGATCTTCCAGC 1903  
 Qy 1817 TCAAAAAGCAGTTCGTGCGAGGGCAGCTGGGAGGATGTGCTGCACCTGGGCGAGGAGGCGC 1876  
 | | | | | | | | | | | | | | | | | | | | | |  
 Db 1904 TCAAGACCCAGGCCCATCAGGGCCACTGGGAGGAGGTGGTGACTTTGGATGAGGAGACTC 1963  
 Qy 1877 CCTCCACCTCTACTACTGCCAGCTGGAGGCCAGTGCCTGCTACGTCTTACCGAGCAGC 1936  
 | | | | | | | | | | | | | | | | | | | | | |  
 Db 1964 TGAACACCCCTGCTACTGCCAGCTAGAGGCTAAATCCTGCCACATCCTGTTGGACCAGC 2023  
 Qy 1937 TGGGCCGCTTTGCCCTGGTGGGAGAGGCCCTCAGCGTGGCTGCCGCCAAGCGCCTCAAGC 1996  
 | | | | | | | | | | | | | | | | | | | | | |  
 Db 2024 TGGGTACCTACGTGTTACGGGCGAGTCTACTCCCGCTCCGCAGTCAAGCGGCTCCAGC 2083  
 Qy 1997 TGCTTCTGTTTGCGCCGGTGGCCTGCACCTCCCTCGAGTACAACATCCGGGTCTACTGCC 2056  
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 Db 2084 TAGCCATCTTCGCCCCAGCCCTCTGCACCTCCCTGGAGTATAGTCTCAGGGTCTACTGTC 2143

Qy 2057 TGCATGACACCCACGATGCACTCAAGGAGGTGGTGCAGCTGGAGAAGCAGCTGGGGGGAC 2116  
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 Db 2144 TGGAGGACACTCCTGCAGCACTGAAGGAGGTCTAGAGCTGGAGAGGACTCTGGGTGGCT 2203

Qy 2117 AGCTGATCCAGGAGCCACGGGTCCTGCACTTCAAGGACAGTTACCACAACCTGCGCCTAT 2176  
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 Db 2204 ACTTGGTGGAGGAGCCCAAGACTTTGCTCTTTAAGGACAGTTACCACAACCTACG-CTCT 2262

Qy 2177 CCATCCACGATGTGCCCAGCTCCCTGTGGAAGAGTAAGCTCCTTGTGAGCTACCAGGAGA 2236  
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 Db 2263 CCCTCCATGACATCCCCCATGCCCACTGGAGGAGCAAACCTACTGGCCAAGTACCAGGAGA 2322

Qy 2237 TCCCCTTTTATCACATCTGGAATGGCACGCAGCGGTACTTGCAGTGCACCTTCACCCTGG 2296  
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 Db 2323 TTCCCTTCTACCATGTGTGGAACGGCAGCCAGAAAGCCCTGCAGTGCACCTTCACCCTGG 2382

Qy 2297 AGCGTGTGAGCCCCAGCACTAGTGACCTGGCCTGCAAGCTGTGGGTGTGGCAGGTGGAGG 2356  
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 Db 2383 AGAGACATAGCCTAGCCTCCACTGAGTTCACCTGTAAGGTCTGCGTGCGGCAGGTAGAAG 2442

Qy 2357 GCGACGGGCAGAGCTTCAGCATCAACTTCAACATCAC---CAAGGACACAAGGTTTGCTG 2413  
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 Db 2443 GGGAAGGCCAGATTTTCCAGCTGCACACCACGCTGGCTGAGACGCCTGCTGGCTCCCTGG 2502

Qy 2414 AGCTGCTGGCTCTGGAGAGTGAAGCGGGGGTCCCAGCCCTGGTGGGCCCCAGTGCCTTCA 2473  
 | || || | || || | ||| | ||| ||| ||| ||||| ||||| |||||  
 Db 2503 ATGCACTCTGCTCTGCCCCTGGCAATGCTGCCACCACACAGCTGGGACCCTATGCCTTCA 2562

Qy 2474 AGATCCCCTTCCTCATTCGGCAGAAGATAATTTCCAGCCTGGACCCACCCTGTAGGCGGG 2533  
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 Db 2563 AGATACCACTGTCCATCCGCCAGAAGATCTGCAACAGCCTGGACGCCCCCAACTCACGGG 2622

Qy 2534 GTGCCGACTGGCGGACTCTGGCCCAGAACTCCACCTGGACAGCCATCTCAGCTTCTTTG 2593  
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 Db 2623 GCAATGACTGGCGGCTGTTGGCACAGAAGCTCTCCATGGACCGGTACCTGAACCTACTTCG 2682

Qy 2594 CCTCCAAGCCCAGCCCCACAGCCATGATCCTCAACCTGTGGGAGGCGCGGCACTTCCCCA 2653  
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 Db 2683 CCACCAAAGCTAGTCCCACAGGCGTGATCTTAGACCTCTGGGAAGCTCGGCAGCAGGATG 2742

Qy 2654 ACGGCAACCTCAGCCAGCTGGCTGCAGCAGTGGCTGGACTGGGCCAGCCAGACGCTGGCC 2713  
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 Db 2743 ATGGGGACCTCAACAGCCTGGCCAGTGCCTTGGAGGAGATGGGCAAGAGTGAGATGCTGG 2802

Qy 2714 TCTTACAGTGTGCGGAGGCTGAGTGCTGA 2742  
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 Db 2803 TAGCCATGACCACTGATGGCGATTGCTGA 2831

# RESULT 7

US-09-949-016-4794

; Sequence 4794, Application US/09949016

; Patent No. 6812339

; GENERAL INFORMATION:

; APPLICANT: VENTER, J. Craig et al.

; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED



Db 490 GGTCTACTTGTGGAAGTGCACCCACTGGCGCAGGAGGGAGTGCACGGCGCCAGCCC 549

Qy 1025 CCCGCAACGGAGGGGAGGAGTGCCAGGGCACTGACCTGGACACCCGCAACTGTACCAAGTG 1084  
 || || |||| |||| ||| | ||| | | ||| |||| || ||

Db 550 CCAAGAATGGAGGCAAGGACTGCGACGGCCTCGTCTTGCAATCCAAGAAGTGCAGTGATG 609

Qy 1085 ACCTCTGTGTACACAGTGCTTCTGGCCCTGAGGACGTGGCCCTCTATGTGGG---CCTCA 1141  
 || || | || | |||| ||| | ||| | ||| |||| || || ||

Db 610 GGCTTTGCATGCAGACTGCTCCTGATTCAGATGATGTTGCTCTCTATGTTGGGATTGTGA 669

Qy 1142 TCGCCGTGGCCGTCTGCCTGGTCCTGCTGCTGCTTGTCTCATCTCGTTTATTGCCGGA 1201  
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Db 670 TAGCAGTGATCGTTTGCCTGGCGATCTCTGTAGTTGTGGCCTTGTTTGTGTATCGGAAGA 729

Qy 1202 AGAAGGAGGGGCTGGACTCAGATGTGGCTGACTCGTCCATTCTCACCTCAGGCTTCCAGC 1261  
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Db 730 ATCATCGTGACTTTGAGTCAGATATTATTGACTCTTCGGCACTCAATGGGGGCTTTCAGC 789

Qy 1262 CCGTCAGCATCAAGCCCAGCAAAGCAGACAACCCCCATCTGCTCACCATCCAGCCGGACC 1321  
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Db 790 CTGTGAACATCAAG-----GCAGCAAGACAAGATCTGCTGGCTGTACCCCCAGACC 840

Qy 1322 TCAGCACCACCACCACCTACCAGGGCAGTCTCTGTCCCCGGCAGGATG-----GGCC 1376  
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Db 841 TCACGTGAGCTGCAGCCATGTACAGAGGACCTGTCTATGCCCTGCATGACGTCTCAGACA 900

Qy 1377 CAGCCCCAAGTTCCAGCTCACCAAT----GGGCACCTGCTCAGCCCCCTGGGTGGCGGCC 1432  
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Db 901 AAATCCCAATGACCAACTCTCCAATTCTGGATCCACTGCCAACCTGAAATCAAAGTGT 960

Qy 1433 GCCACACACTGCACCACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTCTCCCGCTCT 1492  
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Db 961 ACAACACCTCAGGTGCTGTCAACCCCCAAGATGACCTCTCTGAGTTTACGTCCAAGCTGT 1020

Qy 1493 CCACCCAGAACTACTTCCGCTCCCTGCCCCGAGGCACCAGCAACATGA----- 1540  
 || | |||| | | || | || || || || ||

Db 1021 CCCCTCAGATGACCCAGTCGTTGTTGGAGAATGAAGCCCTCAGCCTGAAGAACCAGAGTC 1080

Qy 1541 -----CCTATGGGACCTTCAACTTCCTCGGGGGCC 1570  
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Db 1081 TAGCAAGGCAGACTGATCCATCCTGTACCGCATTGGCAGCTTCAACTCGCTGGGAGGTC 1140

Qy 1571 GGCTGATGATCCCTAATACAGGTATCAGCCTCCTCATCCCCCAGATGCCATACCCCGAG 1630  
 || || | || ||| |||| |||| | || || ||| | | |||| |||| ||

Db 1141 ACCTTATTGTTCCCAATTGAGGAGTCAGCTTGCTGATTCCCGCTGGGGCCATTCCCCAAG 1200

Qy 1631 GGAAGATCTATGAGATCTACCTCACGCTGCACAAGCCGGAAGACGTGAGGTTGCCCTAG 1690  
 ||| |||| || || || | || | |||| | || |||| |||| ||

Db 1201 GGAGAGTCTACGAAATGTATGTGACTGTACACAGGAAAGAACTATGAGGCCACCCATGG 1260

Qy 1691 CTGGCTGTCAGACCCTGCTGAGTCCCATCGTTAGCTGTGGACCCCCTGGCGTCCTGCTCA 1750  
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Db 1261 ATGACTCTCAGACACTTTTGACCCCTGTGGTGAGCTGTGGGCCCCCAGGAGCTCTGCTCA 1320

Qy 1751 CCCGGCCAGTCATCCTGGCTATGGACCACTGTGGGGAGCCCAGCCCTGACAGCTGGAGCC 1810  
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Db 1321 CCCGCCAGTCGTCTCACTATGCATCACTGCGCAGACCCCAATACCGAGGACTGGAAAA 1380

Qy	1811	TGCGCCTCAAAAAGCAGTCGTGCGAGGGCAGCTGGGAGGATGTGCTGCACCTGGGCGAGG	1870
Db	1381	TACTGCTCAAGAACCAGGCAGCACAGGGACAGTGGGAGGATGTGGTGGTGGTCGGGGAGG	1440
Qy	1871	AGGCGCCCTCCCACCTCTACTACTGCCAGCTGGAGGCCAGTGCCTGCTACGTCTTCACCG	1930
Db	1441	AAAACTTCACCACCCCCTGCTACATTAGCTGGATGCAGAGGCCTGCCACATCCTCACAG	1500
Qy	1931	AGCAGCTGGGCGCCTTTGCCCTGGTGGGAGAGGCCCTCAGCGTGGCTGCCGCCAAGCGCC	1990
Db	1501	AGAACCTCAGCACCTACGCCCTGGTAGGACATTCCACCACCAAAGCGGCTGCGAAGCGCC	1560
Qy	1991	TCAAGCTGCTTCTGTTTGCGCCGGTGGCCTGCACCTCCCTCGAGTACAACATCCGGGTCT	2050
Db	1561	TCAAGCTGGCCATCTTTGGGCCCCCTGTGCTGCTCCTCGCTGGAGTACAGCATCCGAGTCT	1620
Qy	2051	ACTGCCTGCATGACACCCACGATGCACTCAAGGAGGTGGTGCAGCTGGAGAAGCAGCTGG	2110
Db	1621	ACTGTCTGGATGACACCCAGGATGCCCTGAAGGAAATTTACATCTTGAGAGACAGATGG	1680
Qy	2111	GGGGACAGCTGATCCAGGAGCCACGGGTCTGCACTTCAAGGACAGTTACCACAACCTGC	2170
Db	1681	GAGGACAGCTCCTAGAAGAACCTAAGGCTCTTCATTTTAAAGGCAGCACCCACAACCTGC	1740
Qy	2171	GCCTATCCATCCACGATGTGCCAGCTCCCTGTGGAAGAGTAAGCTCCTTGTGAGCTACC	2230
Db	1741	GCCTGTCAATTACGATATCGCCATTCCCTCTGGAAGAGCAAATTGCTGGCTAAATATC	1800
Qy	2231	AGGAGATCCCCTTTTATCACATCTGGAATGGCAGCGAGCGGTACTTGCACTGCACCTTCA	2290
Db	1801	AGGAAATTCCATTTTACCATGTTTGGAGTGGATCTCAAAGAAACCTGCACTGCACCTTCA	1860
Qy	2291	CCCTGGAGCGTGTGAGCCCCAGCACTAGTGACCTGGCCTGCAAGCTGTGGGTGTGGCAGG	2350
Db	1861	CTCTGGAAAGATTTAGCCTGAACACAGTGGAGCTGGTTTGCAAACCTCTGTGTGCGGCAGG	1920
Qy	2351	TGGAGGGCGCAGGGGAGAGCTTCAGCATCAACTTCAACATCACCAAGGACACAAGGTTTG	2410
Db	1921	TGGAAGGAGAAGGGCAGATCTTCCAGCTCAACTGCACCGTGTGAGGAACCTACTGGCA	1980
Qy	2411	CTGAGCTGCTGGCTCTGGAGAGTGAAGCGGGGGTCCCAGCCCTGGTGGGCCCCAGTGCCT	2470
Db	1981	TCGATTTGCCGCTGCTGGATCCTGCGAACACCATCACCACGGTCACGGGGCCCAGTGCTT	2040
Qy	2471	TCAAGATCCCCTTCCCTCATTCGGCAGAAGATAATTTCCAGCCTGGACCCACCCTGTAGGC	2530
Db	2041	TCAGCATCCCTCTCCCTATCCGGCAGAAGCTCTGTAGCAGCCTGGATGCCCCCAGACGA	2100
Qy	2531	GGGGTGCCGACTGGCGGACTCTGGCCCAGAACTCCACCTGGACAGCCATCTCAGCTTCT	2590
Db	2101	GAGGCCATGACTGGAGGATGCTGGCCCATAAGCTGAACCTGGACAGGTACTTGAATTACT	2160
Qy	2591	TTGCCTCCAAGCCCAGCCCCACAGCCATGATCCTCAACCTGTGGGAGGCGCGGCACCTTCC	2650
Db	2161	TTGCCACCAAATCCAGCCCAACTGGCGTAATCCTGGATCTTTGGGAAGCACAGAACTTCC	2220

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Qy      2651 CCAACGGCAACCTCAGCCAGCTGGCTGCAGCAGTGGCTGGACTGGGCCAGCCAGACGCTG 2710
          | | | | | | | | | | | | | | | | | | | | | | | |
Db      2221 CAGATGGAACCTGAGCATGCTGGCAGCTGTCTTGGAAGAAATGGGAAGACATGAAACGG 2280

Qy      2711 GCCTCTTCACAGTGTCTGGAGGCTGAGTGCTGA 2742
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Db      2281 TGGTGTCTTAGCAGCAGAAGGGCAGTATTAA 2312

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RESULT 8

US-09-969-532-9

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; Sequence 9, Application US/09969532
; Patent No. 6777232
; GENERAL INFORMATION:
; APPLICANT: Walke, D. Wade
; APPLICANT: Scoville, John
; TITLE OF INVENTION: No. 6777232el Human Membrane Proteins and Polynucleotides
Encoding the Same
; FILE REFERENCE: LEX-0244-USA
; CURRENT APPLICATION NUMBER: US/09/969,532
; CURRENT FILING DATE: 2001-10-02
; PRIOR APPLICATION NUMBER: US 60/237,280
; PRIOR FILING DATE: 2000-10-02
; NUMBER OF SEQ ID NOS: 33
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 9
; LENGTH: 2736
; TYPE: DNA
; ORGANISM: homo sapiens
US-09-969-532-9

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Query Match          17.7%; Score 487; DB 4; Length 2736;
Best Local Similarity 50.9%; Pred. No. 2.7e-99;
Matches 1305; Conservative 0; Mismatches 1230; Indels 30; Gaps 5;

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Qy      172 CTTCCCCACTTCTGGTGGAGCCCGAGGATGTGTACATCGTCAAGAACAAGCCAGTGCTG 231
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Db      157 CTGCCTCATTTTCATAGAGGAGCCAGATGATGCTTATATTATCAAGAGCAACCCTATTGCA 216

Qy      232 CTTGTGTGCAAGGCCGTGCCCGCCACGCAGATCTTCTTCAAGTGCAACGGGGAGTGGGTG 291
          || | | | | | | | | | | | | | | | | | | | |
Db      217 CTCAGGTGCAAAGCGAGGCCAGCCATGCAGATATTCTTCAAATGCAACGGCGAGTGGGTC 276

Qy      292 CGCCAGGTGGACCACGTGATCGAGCGCAGCACAGACGGGAGCAGTGGGCTGCCCAACCATG 351
          | | | | | | | | | | | | | | | | | | | |
Db      277 CATCAGAACGAGCACGTCTCTGAAGAGACTCTGGACGAGAGCTCAGGTTTGAAGGTCCGC 336

Qy      352 GAGGTCCGCATTAATGTCTCAAGGCAGCAGGTCGAGAAGGTGTTCCGGGCTGGAGGAATAC 411
          || || | | | | | | | | | | | | | | | | | |
Db      337 GAAGTGTTTCATCAATGTTACTAGGCAACAGGTGGAGGACTTCCATGGGCCCCGAGGACTAT 396

Qy      412 TGGTGCCAGTGCGTGGCATGGAGCTCCTCGGGCACCACCAAGAGTCAGAAGGCCTACATC 471
          | | | | | | | | | | | | | | | | | | | |
Db      397 TGGTGCCAGTGTGTGGCGTGGAGCCACCTGGGTACCTCCAAGAGCAGGAAGGCCTCTGTG 456

Qy      472 CGCATAGCCAGATTGCGCAAGAACTTCGAGCAGGAGCCGCTGGCCAAGGAGGTGTCCCTG 531
          | | | | | | | | | | | | | | | | | | | |

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Db	457	CGCATAGCCTATTTACGGA AAAA ACTTTGAACAAGACCACAAAGGAAGGG AAGTTC CCATT	516
Qy	532	GAGCAGGGCATCGTGCTGCCCTGCCGTCCACCGAGGGGCATCCCTCCAGCCGAGGTGGAG	591
Db	517	GAAGGCATGATTGTACTGCACTGCCGCCACCAGAGGGAGTCCCTGCTGCCGAGGTGGAA	576
Qy	592	TGGCTCCGGAACGAGGACCTGGTGGACCCGTCCTGGACCCCAATGTATACATCACGCGG	651
Db	577	TGGCTGAAAAATGAAGAGCCCATTGACTCTGAACAAGACGAGAACATTGACACCAGGGCT	636
Qy	652	GAGCACAGCCTGGTGGTGCACAGGCCCGCCTTGCTGACACGGCCAAC TACACCTGCGTG	711
Db	637	GACCATAACCTGATCATCAGGCAGGCACGGCTCTCGGACTCAGGAAATTACACCTGCATG	696
Qy	712	GCCAAGAACATCGTGGCACGTCGCCGCAGCGCCTCCGCTGCTGTCATCGTCTACGTGAAC	771
Db	697	GCAGCCAACATCGTGGCTAAGAGGAGAAGCCTGTCGGCCACTGTTGTGGTCTACGTGGAT	756
Qy	772	GGTGGGTGGTCGACGTGGACCGAGTGGTCCGCTCTGCAGCGCCAGCTGTGGGCGCGGCTGG	831
Db	757	GGGAGCTGGGAAGTGTGGAGCGAATGGTCCGCTCTGCAGTCCAGAGTGTGA-----A	807
Qy	832	CAGAAACGGAGCCGGAGCTGCACCAACCCGGCGCCTCTCAACGGGGGCGCTTTCTGTGAG	891
Db	808	CATTTGCGGATCCGGGAGTGCACAGCACCCCCGAGAAATGGGGGCAAATTCTGTGAA	867
Qy	892	GGGCAGAATGTCCAGAAAACAGCCTGCGCCACCCTGTGCCCAGTAGACGGCAGCTGGAGC	951
Db	868	GGTCTAAGCCAGGAATCTGAAAAC TGACAGATGGTCTTTGCATCCTAGATAAAAAACCT	927
Qy	952	CCGTGGAGCAAGTGGTTCGGCCTGTGGGCTGGACTGCACCCACTGGCGGAGCCGTGAGTGC	1011
Db	928	CTTCATGAAATAAAACCCCAAAGCATTGAGAATGCCAGCGACATTGCTTTGTACTCGGGC	987
Qy	1012	TCTGACCCAGCACCCCGCAACGGAGGGGAGGAGTGCCAGGGCACTGACCTGGACACCCGC	1071
Db	988	TTGGGTGCTGCCGTCGTGGCCGTTGCAGTCCTGGTCATTGGTGTCAACCTTTACAGACGG	1047
Qy	1072	AAGTGTACCACTGACCTCTGTGTACACAGTGCTTCTGGCCCTGAGGACGTGGCCCTCTAT	1131
Db	1048	AGCCAGAGTGACTATGGCGTGGACGTCATTGACTCTTCTGCATTGACAGGTGGCTTCCA-	1106
Qy	1132	GTGGGCCCTCATCGCCGTGGCCGCTGCCTGGTCTGCTGCTGCTTGTCTCTCATCCTCGTT	1191
Db	1107	--GACCTTCAACTTCAAAACAGTCCGTCAAGCCAAGAATATCATGGAAC TAATGATACAA	1164
Qy	1192	TATTGCCGGAAGAAGGAGGGGCTGGACTCAGATGTGGCTGACTCGTCCATTCTCACCTCA	1251
Db	1165	GAAAAATCCTTTGGTAAC TCCCTGCTCCTGAATTCTGCCATGCAGCCAGATCTGACAGTG	1224
Qy	1252	GGCTTCCAGCCCGTCAGCATCAAGCCCAGCAAAGCAGACAACCCCCATCTGCTCACCATC	1311
Db	1225	AGCCGGACATACAGCGGACCCATCTGTCTGCAGGACCCTCTGGACAAGGAGCTCATGACA	1284
Qy	1312	CAGCCGGACCTCAGCACCAACCACCACCACCTACCAGGGCAGTCTCTGTCCCCGGCAGGAT	1371
Db	1285	GAGTCCCTCACTCTTTAAACCTTTGTGCGGACATCAAAGTGAAAGTCCAGAGCTCGTT CATG	1344



Qy 1372 GGGCCAGCCCCAAGTTCCAGCTCACCAATGGGCACCTGCTCAGCCCCCTGGGTGGCGGC 1431  
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 Db 1345 GTTTCCTGGGAGTGTCTGAGAGAGCTGAGTACCACGGCAAGAATCATTCCAGGACTTTT 1404

Qy 1432 CGCCACACACTGCACCACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTCTCCCGCCTC 1491  
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 Db 1405 CCCCATGGAAACAACCACAGCTTTAGTACAATGCATCCCAGAAATAAAATGCCCTACATC 1464

Qy 1492 TCCACCCAGAACTACTTCCGCTCCCTGCCCCGAGGCACCAGCAACATGACCTATGGGACC 1551  
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 Db 1465 CAAATCTGTC-----ATCACTCCCCACAAGGACAGAAGTGGGACAAGTGGTGTC 1515

Qy 1552 TTCAACTTCCTCGGGGGCCGGCTGATGATCCCTAATACAGGTATCAGCCTCCTCATCCCC 1611  
 | | | | | | | | | | | | | | | | | | | | | |  
 Db 1516 TTTGGCCATTTAGGGGGGCGCTTAGTAATGCCAATACAGGGGTGAGCTTACTCATACCA 1575

Qy 1612 CCAGATGCCATACCCGAGGGAAGATCTATGAGATCTACCTCACGCTGCACAAGCCGGAA 1671  
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 Db 1576 CACGGTGCCATCCCAGAGGAGAATTCTTGGGAGATTTATATGTCCAT---CAACCAAGGT 1632

Qy 1672 GACGTGAGGTTGCCCCTAGCTGGCTGTCAGACCCTGCTGAGTCCCATCGTTAGCTGTGGA 1731  
 | | | | | | | | | | | | | | | | | | | | | |  
 Db 1633 GAACCCAGCCTCCAGTCAGATGGCTCTGAGGTGCTCCTGAGTCCTGAAGTCACCTGTGGT 1692

Qy 1732 CCCCCTGGCGTCTGCTCACCCGGCCAGTCATCCTGGCTATGGACCACTGTGGGGAGCCC 1791  
 | | | | | | | | | | | | | | | | | | | | | |  
 Db 1693 CCTCCAGACATGATCGTCACCACTCCCTTTGCATTGACCATCCCGCACTGTGCAGATGTC 1752

Qy 1792 AGCCCTGACAGCTGGAGCCTGCGCCTCAAAAAGCAGTCGTGCGAGGGCAGCTGGGAGGAT 1851  
 | | | | | | | | | | | | | | | | | | | | | |  
 Db 1753 AGTTCTGAGCATTGGAATATCCATTTAAAGAAGAGGACACAGCAGGGCAAATGGGAGGAA 1812

Qy 1852 GTGCTGCACCTGGGCGAGGAGGCGCCCTCCACCTCTACTACTGCCAGCTGGAGGCCAGT 1911  
 | | | | | | | | | | | | | | | | | | | | | |  
 Db 1813 GTGATGTCAGTGGAAGATGAATCTACATC-----CTGTTACTGCCTTTTGGACCCCTTT 1866

Qy 1912 GCCTGCTACGTCTTCACCGAGCAGCTGGGCCGCTTTGCCCTGGTGGGAGAGGCCCTCAGC 1971  
 | | | | | | | | | | | | | | | | | | | | | |  
 Db 1867 GCGTGTATGTGCTCCTGGACAGCTTTGGGACCTATGCGCTCACTGGAGAGCCAATCACA 1926

Qy 1972 GTGGCTGCCGCCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGGTGGCCTGCACCTCCCTC 2031  
 | | | | | | | | | | | | | | | | | | | | | |  
 Db 1927 GACTGTGCCGTGAAGCAACTGAAGGTGGCGGTTTTTTGGCTGCATGTCCTGTAACCTCCCTG 1986

Qy 2032 GAGTACAACATCCGGGTCTACTGCCTGCATGACACCCACGATGCACTCAAGGAGGTGGTG 2091  
 | | | | | | | | | | | | | | | | | | | | | |  
 Db 1987 GATTACAACCTTGAGAGTTTACTGTGTGGACAATACCCCTTGTGCATTTAGGAAGTGGTT 2046

Qy 2092 CAGCTGGAGAAGCAGCTGGGGGGACAGCTGATCCAGGAGCCACGGGTCTGCACTTCAAG 2151  
 | | | | | | | | | | | | | | | | | | | | | |  
 Db 2047 TCAGATGAAAGGCATCAAGGTGGACAGCTCCTGGAAGAACCAAAATTGCTGCATTTCAA 2106

Qy 2152 GACAGTTACCACAACCTGCGCCTATCCATCCACGATGTGCCAGCTCCCTGTGGAAGAGT 2211  
 | | | | | | | | | | | | | | | | | | | | | |  
 Db 2107 GGGAATACCTTTAGTCTTCAGATTTCTGTCCTTGATATCCCCCATTCCTCTGGAGAATT 2166

Qy 2212 AAGCTCCTTGTGCTAGCTACCAGGAGATCCCCTTTTATCACATCTGGAATGGCACGCAGCGG 2271  
 || | | || ||||| |||| | | | | || | | | |  
 Db 2167 AAACCATTCACTGCCTGCCAGGAAGTCCCCTTCTCCCGCGTGTGGTGCAGTAACCGGCAG 2226  
 Qy 2272 TACTTGCACTGCACCTTCACCCTGGAGCGTGTGAGCCCCAGCACTAGTGACCTGGCCTGC 2331  
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 Db 2227 CCCCTGCACTGTGCCTTCTCCCTGGAGCGTTATACGCCCACTACCACCCAGCTGTCTCTGC 2286  
 Qy 2332 AAGCTGTGGGTGTGGCAGGTGGAGGGCGACGGGCAGAGCTTCAGCATCAACTTCAACATC 2391  
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 Db 2287 AAAATCTGCATTTCGGCAGCTCAAAGGCCATGAACAGATCCTCCAAGTGCAGACATCAATC 2346  
 Qy 2392 ACCAAGGACACAAGGTTTGCTGAGCTGCTGGCTCTGGAGAGTGAAGCGGGGGTCCCAGCC 2451  
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 Db 2347 CTAGAGAGTGAACGAGAAACCATCACTTTCTTCGCACAAGAGGACAGCACTTTCCCTGCA 2406  
 Qy 2452 CTGGTGGGCCCCAGTGCCTTCAAGATCCCCTTCCTCATTCGGCAGAAGATAATTTCCAGC 2511  
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 Db 2407 CAGACTGGCCCCAAAGCCTTCAAATTCCTACTCCATCAGACAGCGGATTTGTGCTACA 2466  
 Qy 2512 CTGGACCCACCTGTAGGCGGGGTGCCGACTGGCGGACTCTGGCCCAGAACTCCACCTG 2571  
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 Db 2467 TTTGATACCCCAATGCCAAAGGCAAGGACTGGCAGATGTTAGCACAGAAAACAGCATC 2526  
 Qy 2572 GACAGCCATCTCAGCTTCTTTGCCTCCAAGCCCAGCCCCACAGCCATGATCCTCAACCTG 2631  
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 Db 2527 AACAGGAATTTATCTTATTTTCGCTACACAAAGTAGCCCATCTGCTGTCAATTTGAACCTG 2586  
 Qy 2632 TGGGAGGCGCGGCACTTCCCCAACGGCAACCTCAGCCAGCTGGCTGCAGCAGTGGCTGGA 2691  
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 Db 2587 TGGGAAGCTCGTCATCAGCATGATGGTGATCTTGACTCCCTGGCCTGTGCCCTTGAAGAG 2646  
 Qy 2692 CTGGGCCAGCCAGACGCTGGCCTCTTCACAGTGTGCGAGGCTGAG 2736  
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 Db 2647 ATTGGGAGGACACACAGAACTCTCAAACATTTCAGAATCCCAG 2691

# RESULT 9

US-09-969-532-33

; Sequence 33, Application US/09969532

; Patent No. 6777232

; GENERAL INFORMATION:

; APPLICANT: Walke, D. Wade

; APPLICANT: Scoville, John

; TITLE OF INVENTION: No. 6777232el Human Membrane Proteins and Polynucleotides Encoding the Same

; FILE REFERENCE: LEX-0244-USA

; CURRENT APPLICATION NUMBER: US/09/969,532

; CURRENT FILING DATE: 2001-10-02

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; PRIOR FILING DATE: 2000-10-02

; NUMBER OF SEQ ID NOS: 33

; SOFTWARE: FastSEQ for Windows Version 4.0

; SEQ ID NO 33

; LENGTH: 3411

; TYPE: DNA

; ORGANISM: homo sapiens

Query Match 17.7%; Score 487; DB 4; Length 3411;  
 Best Local Similarity 50.9%; Pred. No. 2.9e-99;  
 Matches 1305; Conservative 0; Mismatches 1230; Indels 30; Gaps 5;

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Qy      172 CTTCCCCACTTCCTGGTGGAGCCCGAGGATGTGTACATCGTCAAGAACAAGCCAGTGCTG 231
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Db      271 CTGCCTCATTTTCATAGAGGAGCCAGATGATGCTTATATTATCAAGAGCAACCCTATTGCA 330

Qy      232 CTTGTGTGCAAGGCCGTGCCCCGCCACGCAGATCTTCTTCAAGTGCAACGGGGAGTGGGTG 291
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Db      331 CTCAGGTGCAAAGCGAGGCCAGCCATGCAGATATTCTTCAAATGCAACGGCGAGTGGGTC 390

Qy      292 CGCCAGGTGGACCACGTGATCGAGCGCAGCACAGACGGGAGCAGTGGGCTGCCACCATG 351
          | ||| || || || || || || || || || || || || || || || ||
Db      391 CATCAGAACGAGCACGTCTCTGAAGAGACTCTGGACGAGAGCTCAGGTTTGAAGGTCCGC 450

Qy      352 GAGGTCCGCATTAATGTCTCAAGGCAGCAGGTGAGAAAGGTGTTGCGGGCTGGAGGAATAC 411
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Db      451 GAAGTGTTTCATCAATGTTACTAGGCAACAGGTGGAGGACTTCCATGGGCCCGAGGACTAT 510

Qy      412 TGGTGCCAGTGCGTGGCATGGAGCTCCTCGGGCACCACCAAGAGTCAGAAGGCCTACATC 471
          || || || || || || || || || || || || || || || || || || ||
Db      511 TGGTGCCAGTGTGTGGCGTGGAGCCACCTGGGTACCTCCAAGAGCAGGAAGGCCTCTGTG 570

Qy      472 CGCATAGCCAGATTGCGCAAGAACTTCGAGCAGGAGCCGCTGGCCAAGGAGGTGTCCCTG 531
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Db      571 CGCATAGCCTATTTACGGAAAACTTTGAACAAGACCCACAAGGAAGGGAAGTTCCCAT 630

Qy      532 GAGCAGGGCATCGTGCTGCCCTGCCGTCCACCGGAGGGCATCCCTCCAGCCGAGGTGGAG 591
          || || || || || || || || || || || || || || || || || || ||
Db      631 GAAGGCATGATTGTACTGCACTGCCGCCACCAGAGGGAGTCCCTGCTGCCGAGGTGGAA 690

Qy      592 TGGCTCCGGAACGAGGACCTGGTGGACCCGCTCCCTGGACCCCAATGTATACATCACGCGG 651
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Db      691 TGGCTGAAAAATGAAGAGCCCATTTGACTCTGAACAAGACGAGAACATTGACACCAGGGCT 750

Qy      652 GAGCACAGCCTGGTGGTGCACAGGCCCGCCTTGCTGACACGGCCAACTACACCTGCGTG 711
          || || || || || || || || || || || || || || || || || || ||
Db      751 GACCATAACCTGATCATCAGGCAGGCACGGCTCTCGGACTCAGGAAATTACACCTGCATG 810

Qy      712 GCCAAGAACATCGTGGCACGTGCGCGCAGCGCCTCCGCTGCTGTCATCGTCTACGTGAAC 771
          || || || || || || || || || || || || || || || || || || ||
Db      811 GCAGCCAACATCGTGGCTAAGAGGAGAAGCCTGTGCGCCACTGTTGTGGTCTACGTGGAT 870

Qy      772 GGTGGGTGGTTCGACGTGGACCGAGTGGTCCGTCTGCAGCGCCAGCTGTGGGCGCGGCTGG 831
          || || || || || || || || || || || || || || || || || || ||
Db      871 GGGAGCTGGGAAGTGTGGAGCGAATGGTCCGTCTGCAGTCCAGAGTGTGA-----A 921

Qy      832 CAGAAACGGAGCCGGAGCTGCACCAACCCGGCGCCTCTCAACGGGGGCGCTTTCTGTGAG 891
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Db      922 CATTTGCGGATCCGGGAGTGCACAGCACCACCCCGAGAAATGGGGGCAAATTCTGTGAA 981

Qy      892 GGGCAGAATGTCCAGAAAACAGCCTGCGCCACCCTGTGCCAGTAGACGGCAGCTGGAGC 951
          || || || || || || || || || || || || || || || || || || ||
Db      982 GGTCTAAGCCAGGAATCTGAAACTGCACAGATGGTCTTTGCATCCTAGATAAAAAACCT 1041

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Qy 952 CCGTGGAGCAAGTGGTGGGCTGTGGGCTGGACTGCACCCACTGGCGGAGCCGTGAGTGC 1011  
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 Db 1042 CTTTCATGAAATAAAACCCCAAGCATTGAGAATGCCAGCGACATTGCTTTGTACTCGGGC 1101  
 Qy 1012 TCTGACCCAGCACCCCGCAACGGAGGGGAGGAGTGCCAGGGCACTGACCTGGACACCCGC 1071  
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 Db 1102 TTGGGTGCTGCCGTGCTGGCCGTTGCAGTCCTGGTCATTGGTGTACCCCTTTACAGACGG 1161  
 Qy 1072 AACTGTACCAGTGACCTCTGTGTACACAGTGCTTCTGGCCCTGAGGACGTGGCCCTCTAT 1131  
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 Db 1162 AGCCAGAGTGACTATGGCGTGGACGTCATTGACTCTTCTGCATTGACAGGTGGCTTCCA- 1220  
 Qy 1132 GTGGGCCTCATCGCCGTGGCCGTCTGCCTGGTCCTGCTGCTGCTTGTCTCATCTCGTT 1191  
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 Db 1221 --GACCTTCAACTTCAAAACAGTCCGTCAAGCCAAGAATATCATGGAATAATGATACAA 1278  
 Qy 1192 TATTGCCGGAAGAAGGAGGGGCTGGACTCAGATGTGGCTGACTCGTCCATTCTCACCTCA 1251  
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 Db 1279 GAAAAATCCTTTGGTAACTCCCTGCTCCTGAATTCTGCCATGCAGCCAGATCTGACAGTG 1338  
 Qy 1252 GGCTTCCAGCCCGTCAGCATCAAGCCCAGCAAAGCAGACAACCCCCATCTGCTCACCATC 1311  
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 Db 1339 AGCCGGACATACAGCGGACCCATCTGTCTGCAGGACCCTCTGGACAAGGAGCTCATGACA 1398  
 Qy 1312 CAGCCGGACCTCAGCACCACCACCACCTACCAGGGCAGTCTCTGTCCCCGGCAGGAT 1371  
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 Db 1399 GAGTCCTCACTCTTTAACCTTTGTGCGACATCAAAGTGAAAGTCCAGAGCTCGTTCATG 1458  
 Qy 1372 GGGCCAGCCCCAAGTTCAGCTCACCAATGGGCACCTGCTCAGCCCCCTGGGTGGCGGC 1431  
 | | | | | | | | | | | | | | | | | |  
 Db 1459 GTTTCCTGGGAGTGTCTGAGAGAGCTGAGTACCACGGCAAGAATCATTCAGGACTTTT 1518  
 Qy 1432 CGCCACACACTGCACCACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTCTCCCGCCTC 1491  
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 Db 1519 CCCCATGGAAACAACCACAGCTTTAGTACAATGCATCCCAGAAATAAAATGCCCTACATC 1578  
 Qy 1492 TCCACCCAGAACTACTTCCGCTCCCTGCCCCGAGGCACCAGCAACATGACCTATGGGACC 1551  
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 Db 1579 CAAAATCTGTC-----ATCACTCCCCACAAGGACAGAAGTGAAGGACAAGTGGTGTG 1629  
 Qy 1552 TTCAACTTCCTCGGGGGCCGGCTGATGATCCCTAATACAGGTATCAGCCTCCTCATCCCC 1611  
 | | | | | | | | | | | | | | | | | |  
 Db 1630 TTTGGCCATTTAGGGGGGCGCTTAGTAATGCCAAATACAGGGGTGAGCTTACTCATACCA 1689  
 Qy 1612 CCAGATGCCATACCCCGAGGGAAGATCTATGAGATCTACCTCACGCTGCACAAGCCGGAA 1671  
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 Db 1690 CACGGTGCCATCCCAGAGGAGAATTCTTGGGAGATTTATATGTCCAT---CAACCAAGGT 1746  
 Qy 1672 GACGTGAGGTTGCCCCTAGCTGGCTGTGAGACCCTGCTGAGTCCCATCGTTAGCTGTGGA 1731  
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 Db 1747 GAACCCAGCCTCCAGTCAGATGGCTCTGAGGTGCTCCTGAGTCCTGAAGTCACCTGTGGT 1806  
 Qy 1732 CCCCCTGGCGTCCTGCTCACCCGGCCAGTCATCCTGGCTATGGACCACTGTGGGGAGCCC 1791  
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 Db 1807 CCTCCAGACATGATCGTCACCACTCCCTTTGCATTGACCATCCCGCACTGTGCAGATGTC 1866

Qy 1792 AGCCCTGACAGCTGGAGCCTGCGCCTCAAAAAGCAGTCGTGCGAGGGCAGCTGGGAGGAT 1851  
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 Db 1867 AGTTCTGAGCATTGGAATATCCATTTAAAGAAGAGGACACAGCAGGGCAAATGGGAGGAA 1926

Qy 1852 GTGCTGCACCTGGGCGAGGAGGCGCCCTCCACCTCTACTACTGCCAGCTGGAGGCCAGT 1911  
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 Db 1927 GTGATGTCAAGTGAAGATGAATCTACATC-----CTGTTACTGCCTTTTGGACCCCTTT 1980

Qy 1912 GCCTGCTACGTCTTCACCGAGCAGCTGGGCGCCTTTGCCCTGGTGGGAGAGGCCCTCAGC 1971  
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 Db 1981 GCGTGTCAATGTGCTCCTGGACAGCTTTGGGACCTATGCGCTCACTGGAGAGCCAATCACA 2040

Qy 1972 GTGGCTGCCGCCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGGTGGCCTGCACCTCCCTC 2031  
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 Db 2041 GACTGTGCCGTGAAGCAACTGAAGGTGGCGGTTTTTGGCTGCATGTCCTGTAACCTCCCTG 2100

Qy 2032 GAGTACAACATCCGGGTCTACTGCCTGCATGACACCCACGATGCACTCAAGGAGGTGGTG 2091  
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 Db 2101 GATTACAACCTTGAGAGTTTACTGTGTGGACAATACCCCTTGTGCATTTTCAGGAAGTGGTT 2160

Qy 2092 CAGCTGGAGAAGCAGCTGGGGGGACAGCTGATCCAGGAGCCACGGGTCTGCACTTCAAG 2151  
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 Db 2161 TCAGATGAAAGGCATCAAGGTGGACAGCTCCTGGAAGAACCAAAATTGCTGCATTTCAA 2220

Qy 2152 GACAGTTACCACAACCTGCGCCTATCCATCCACGATGTGCCAGCTCCCTGTGGAAGAGT 2211  
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 Db 2221 GGAATACCTTTAGTCTTCAGATTTCTGTCTTGATATCCCCCATTCCTCTGGAGAATT 2280

Qy 2212 AAGCTCCTTGTGCTAGCTACCAGGAGATCCCCTTTTATCACATCTGGAATGGCAGCGAGCGG 2271  
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 Db 2281 AAACCATTCACTGCCTGCCAGGAAGTCCCGTTCTCCCGCGTGTGGTGCAGTAACCGGCAG 2340

Qy 2272 TACTTGCCTGCACCTTCACCCTGGAGCGTGTGAGCCCCAGCACTAGTGACCTGGCCTGC 2331  
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 Db 2341 CCCCTGCCTGTGCTTCTCCCTGGAGCGTTATACGCCCACTACCACCCAGCTGTCTGCTGC 2400

Qy 2332 AAGCTGTGGGTGTGGCAGGTGGAGGGCGACGGGCAGAGCTTCAGCATCAACTTCAACATC 2391  
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 Db 2401 AAAATCTGCATTCGGCAGCTCAAAGGCCATGAACAGATCCTCCAAGTGCAGACATCAATC 2460

Qy 2392 ACCAAGGACACAAGGTTTGCTGAGCTGCTGGCTCTGGAGAGTGAAGCGGGGGTCCCAGCC 2451  
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 Db 2461 CTAGAGAGTGAACGAGAAACCATCACTTTCTTCGCACAAGAGGACAGCACTTCCCTGCA 2520

Qy 2452 CTGGTGGGCCCCAGTGCCTTCAAGATCCCCTTCCTCATTCGGCAGAAGATAATTTCCAGC 2511  
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 Db 2521 CAGACTGGCCCCAAAGCCTTCAAATTCCTACTCCATCAGACAGCGGATTTGTGCTACA 2580

Qy 2512 CTGGACCCACCCTGTAGGCGGGGTGCCGACTGGCGGACTCTGGCCCAGAACTCCACCTG 2571  
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 Db 2581 TTTGATACCCCCAATGCCAAAGGCAAGGACTGGCAGATGTTAGCACAGAAAAACAGCATC 2640

Qy 2572 GACAGCCATCTCAGCTTCTTTGCCTCCAAGCCCAGCCCCACAGCCATGATCCTCAACCTG 2631  
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 Db 2641 AACAGGAATTTATCTTATTTGCTACACAAAGTAGCCCATCTGCTGTCATTTTGAACCTG 2700

Qy 2632 TGGGAGGCGCGGCACTTCCCCAACGGCAACCTCAGCCAGCTGGCTGCAGCAGTGGCTGGA 2691

Qy	172	CTTCCCCACTTCCTGGTGAGACCCGAGGATGTGTACATCGTCAAGAACAAGCCAGTGCTG	231
Db	157	CTGCCTCATTTTCATAGAGGAGCCAGATGATGCTTATATTATCAAGAGCAACCCTATTGCA	216
Qy	232	CTTGTGTGCAAGGCCGTGCCCGCCACGCAGATCTTCTTCAAGTGCAACGGGGAGTGGGTG	291
Db	217	CTCAGGTGCAAAGCGAGGCCAGCCATGCAGATATTCTTCAAATGCAACGGCGAGTGGGTC	276
Qy	292	CGCCAGGTGGACCACGTGATCGAGCGCAGCACAGACGGGAGCAGTGGGCTGCCACCATG	351
Db	277	CATCAGAACGAGCACGTCTCTGAAGAGACTCTGGACGAGAGCTCAGGTTTGAAGGTCCGC	336
Qy	352	GAGGTCCGCATTAATGTCTCAAGGCAGCAGGTGCGAGAAGGTGTTGCGGGCTGGAGGAATAC	411
Db	337	GAAGTGTTTCATCAATGTTACTAGGCAACAGGTGGAGGACTTCCATGGGCCCGAGGACTAT	396
Qy	412	TGGTGCCAGTGCGTGCCATGGAGCTCCTCGGGCACCACCAAGAGTCAGAAGGCCTACATC	471
Db	397	TGGTGCCAGTGTTGTGGCGTGGAGCCACCTGGGTACCTCCAAGAGCAGGAAGGCCTCTGTG	456
Qy	472	CGCATAGCCAGATTGCGCAAGAACTTCGAGCAGGAGCCGCTGGCCAAGGAGGTGTCCCTG	531
Db	457	CGCATAGCCTATTTACGGAAAAAAGCTTTGAACAAGACCCACAAGGAAGGGAAGTTCCCAT	516

Qy	532	GAGCAGGGCATCGTGTCTGCCCTGCCGTCCACGGAGGGGCATCCCTCCAGCCGAGGTGGAG	591
Db	517	GAAGGCATGATTGTACTGCACTGCCGCCACCAGAGGGAGTCCCTGCTGCCGAGGTGGAA	576
Qy	592	TGGCTCCGGAACGAGGACCTGGTGACCCGTCCTGGACCCCAATGTATAACATCACGCGG	651
Db	577	TGGCTGAAAAATGAAGAGCCCATTGACTCTGAACAAGACGAGAACATTGACACCAGGGCT	636
Qy	652	GAGCACAGCCTGGTGGTGCGACAGGCCCGCCTTGCTGACACGGCCAACCTACACCTGCGTG	711
Db	637	GACCATAACCTGATCATCAGGCAGGCACGGCTCTCGGACTCAGGAAATTACACCTGCATG	696
Qy	712	GCCAAGAACATCGTGGCACGTGCGCGCAGCGCCTCCGCTGCTGTCATCGTCTACGTGAAC	771
Db	697	GCAGCCAACATCGTGGCTAAGAGGAGAAGCCTGTCGGCCACTGTTGTGGTCTACGTGGAT	756
Qy	772	GGTGGGTGGTCGACGTGGACCGAGTGGTCCGTCTGCAGCGCCAGCTGTGGGCGCGGCTGG	831
Db	757	GGGAGCTGGGAAGTGTGGAGCGAATGGTCCGTCTGCAGTCCAGAGTGTG-----AA	807
Qy	832	CAGAAAACGGAGCCGGAGCTGCACCAACCCGGCGCCTCTCAACGGGGGCGCTTTCTGTGAG	891
Db	808	CATTTGCGGATCCGGGAGTGCACAGCACCACCCCCGAGAAATGGGGGCAAATTCTGTGAA	867
Qy	892	GGGCAGAATGTCCAGAAAACAGCCTGCGCCACCCTGTGCCCAGTAGACGGCAGCTGGAGC	951
Db	868	GGTCTAAGCCAGGAATCTGAAAACAGCAGATGGTCTTTGCATCCTAGGCATTGAGAAT	927
Qy	952	CCGTGGAGCAAGTGGTCCGGCCTGTGGGCTGGACTGCACCCACTGGCGGAGCCGTGAGTGC	1011
Db	928	GCCAGCGACATTGCTTTGTACTCGGGCTTGG-----GTGC	962
Qy	1012	TCTGACCCAGCACCCCGCAACGGAGGGGAGGAGTGCCAGGGCACTGACCTGGACACCCGC	1071
Db	963	TGCCGTCGTGGCCGTTGCAGTCCTGGTCATTGGTGTACCCCTTTACAGACGGA-----	1015
Qy	1072	AACTGTACCAGTGACCTCTGTGTACACAGTGCTTCTGGCCCTGAGGACGTGGCCCTCTAT	1131
Db	1016	----GCCAGAGTGACTATGGCGTGGACGTGATTGACTCTTCTGCATTGACAGGTGGCTTC	1071
Qy	1132	GTGGGCCTCATCGCCGTGGCCGTCTGCCTGGTCCTGCTGCTGCTGCTGCCTCATCCTCGTT	1191
Db	1072	CAGACCTTCAACTTCAAACAGTCCGTCAAGCCAAGAATATCATGGAACATAATGATACAA	1131
Qy	1192	TATTGCCGGAAGAAGGAGGGGCTGGACTCAGATGTGGGTGACTCGTCCATTCTCACCTCA	1251
Db	1132	GAAAAATCCTTTGGTAACCTCCCTGCTCCTGAATTCTGCCATGCAGCCAGATCTGACAGTG	1191
Qy	1252	GGCTTCCAGCCCGTCAGCATCAAGCCCAGCAAAGCAGACAACCCCCATCTGCTCACCATC	1311
Db	1192	AGCCGGACATACAGCGGACCCATCTGTCTGCAGGACCCTCTGGACAAGGAGCTCATGACA	1251
Qy	1312	CAGCCGGACCTCAGCACCACCACCACCACCTACCAGGGCAGTCTCTGTCCCCGGCAGGAT	1371
Db	1252	GAGTCTCACTCTTTAACCCCTTTGTGCGGACATCAAAGTGAAAGTCCAGAGCTCGTTTCATG	1311

Qy 1372 GGGCCCAGCCCCAAGTTCAGCTCACCAATGGGCACCTGCTCAGCCCCCTGGGTGGCGGC 1431  
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 Db 1312 GTTTCCTGGGAGTGTCTGAGAGAGCTGAGTACCACGGCAAGAATCATTCCAGGACTTTT 1371

Qy 1432 CGCCACACACTGCACCACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTCTCCCGCCTC 1491  
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 Db 1372 CCCCATGGAAACAACCACAGCTTTAGTACAATGCATCCCAGAAATAAAATGCCCTACATC 1431

Qy 1492 TCCACCCAGAACTACTTCCGCTCCCTGCCCCGAGGCACCAGCAACATGACCTATGGGACC 1551  
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 Db 1432 CAAAATCTGTC-----ATCACTCCCCACAAGGACAGAAGTGGGACAAGTGGTGTG 1482

Qy 1552 TTCAACTTCCTCGGGGGCCGGCTGATGATCCCTAATACAGGTATCAGCCTCCTCATCCCC 1611  
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 Db 1483 TTTGGCCATTTAGGGGGGCGCTTAGTAATGCCAAATACAGGGGTGAGCTTACTCATACCA 1542

Qy 1612 CCAGATGCCATACCCCGAGGGAAGATCTATGAGATCTACCTCACGCTGCACAAGCCGGAA 1671  
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 Db 1543 CACGGTGCCATCCCAGAGGAGAATTCTTGGGAGATTTATATGTCCAT---CAACCAAGGT 1599

Qy 1672 GACGTGAGGTGCCCCCTAGCTGGCTGTCAGACCCTGCTGAGTCCCATCGTTAGCTGTGGA 1731  
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 Db 1600 GAACCCAGCCTCCAGTCAGATGGCTCTGAGGTGCTCCTGAGTCCTGAAGTCACCTGTGGT 1659

Qy 1732 CCCCCTGGCGTCTGCTCACCCGGCCAGTCATCCTGGCTATGGACCACTGTGGGGAGCCC 1791  
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 Db 1660 CCTCCAGACATGATCGTCACCACTCCCTTTGCATTGACCATCCCGCACTGTGCAGATGTC 1719

Qy 1792 AGCCCTGACAGCTGGAGCCTGCGCCTCAAAAAGCAGTCGTGCGAGGGCAGCTGGGAGGAT 1851  
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 Db 1720 AGTTCTGAGCATTGGAATATCCATTTAAAGAAGAGGACACAGCAGGGCAAATGGGAGGAA 1779

Qy 1852 GTGCTGCACCTGGGCGAGGAGGCGCCCTCCACCTCTACTACTGCCAGCTGGAGGCCAGT 1911  
 | | | | | | | | | | | | | | | | | |  
 Db 1780 GTGATGTCAGTGGAAGATGAATCTACATC-----CTGTTACTGCCTTTTGGACCCCTTT 1833

Qy 1912 GCCTGCTACGTCTTCACCGAGCAGCTGGGCCGCTTTGCCCTGGTGGGAGAGGCCCTCAGC 1971  
 | | | | | | | | | | | | | | | | | |  
 Db 1834 GCGTGTGTCATGTGCTCCTGGACAGCTTTGGGACCTATGCGCTCACTGGAGAGCCAATCACA 1893

Qy 1972 GTGGCTGCCGCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGGTGGCCTGCACCTCCCTC 2031  
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 Db 1894 GACTGTGCCGTGAAGCAACTGAAGGTGGCGGTTTTTTGGCTGCATGTCCTGTAACCTCCCTG 1953

Qy 2032 GAGTACAACATCCGGGTCTACTGCCTGCATGACACCCACGATGCACTCAAGGAGGTGGTG 2091  
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 Db 1954 GATTACAACCTTGAGAGTTTACTGTGTGGACAATACCCCTTGTGCATTTTCAGGAAGTGGTT 2013

Qy 2092 CAGCTGGAGAAGCAGCTGGGGGGACAGCTGATCCAGGAGCCACGGTCTTGCCTTCAAG 2151  
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 Db 2014 TCAGATGAAAGGCATCAAGGTGGACAGCTCCTGGAAGAACCAAAATTGCTGCATTTCAA 2073

Qy 2152 GACAGTTACCACAACCTGCGCCTATCCATCCACGATGTGCCAGCTCCCTGTGGAAGAGT 2211  
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 Db 2074 GGGAATACCTTTAGTCTTCAGATTTCTGTCCTTGATATCCCCCATTCCTCTGGAGAATT 2133

Qy 2212 AAGCTCCTTGTGCTGAGCTACCAGGAGATCCCCTTTTATCACATCTGGAATGGCACGCAGCGG 2271



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Db      2134 AAACCATTCACTGCCTGCCAGGAAGTCCCCTTCTCCCGCGTGTGGTGCAGTAACCGGCAG 2193
Qy      2272 TACTTGCACTGCACCTTCACCCTGGAGCGTGTGAGCCCCAGCACTAGTGACCTGGCCTGC 2331
      | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db      2194 CCCCTGCACTGTGCCTTCTCCCTGGAGCGTTATACGCCCACTACCACCCAGCTGTCTCTGC 2253
Qy      2332 AAGCTGTGGGTGTGGCAGGTGGAGGGCGACGGGCAGAGCTTCAGCATCAACTTCAACATC 2391
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Db      2254 AAAATCTGCATTTCGGCAGCTCAAAGGCCATGAACAGATCCTCCAAGTGCAGACATCAATC 2313
Qy      2392 ACCAAGGACACAAGGTTTGCTGAGCTGCTGGCTCTGGAGAGTGAAGCGGGGGTCCCAGCC 2451
      | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db      2314 CTAGAGAGTGAACGAGAAACCATCACTTTCTTCGCACAAGAGGACAGCACTTTCCTGCA 2373
Qy      2452 CTGGTGGGCCCCAGTGCCTTCAAGATCCCCTTCCTCATTGGCAGAAGATAATTTCCAGC 2511
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Db      2374 CAGACTGGCCCCAAAGCCTTCAAATTCCCTACTCCATCAGACAGCGGATTTGTGCTACA 2433
Qy      2512 CTGGACCCACCCTGTAGGCGGGGTGCCGACTGGCGGACTCTGGCCCAGAACTCCACCTG 2571
      | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db      2434 TTTGATACCCCCAATGCCAAAGGCAAGGACTGGCAGATGTTAGCACAGAAAAACAGCATC 2493
Qy      2572 GACAGCCATCTCAGCTTCTTTGCCTCCAAGCCCAGCCCCACAGCCATGATCCTCAACCTG 2631
      | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db      2494 AACAGGAATTTATCTTATTTTCGCTACACAAAGTAGCCCATCTGCTGTCATTTTGAACCTG 2553
Qy      2632 TGGGAGGCGCGGCACTTCCCCAACGGCAACCTCAGCCAGCTGGCTGCAGCAGTGGCTGGA 2691
      | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db      2554 TGGGAAGCTCGTCATCAGCATGATGGTGTCTTGACTCCCTGGCCTGTGCCCTTGAAGAG 2613
Qy      2692 CTGGGCCAGCCAGACGCTGGCCTCTTCACAGTGTGCGGAGGCTGAG 2736
      | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db      2614 ATGGGAGGACACACAGAACTCTCAAACATTTCAGAATCCCAG 2658

```

RESULT 11

US-09-969-532-13

; Sequence 13, Application US/09969532

; Patent No. 6777232

; GENERAL INFORMATION:

; APPLICANT: Walke, D. Wade

; APPLICANT: Scoville, John

; TITLE OF INVENTION: No. 6777232el Human Membrane Proteins and Polynucleotides  
Encoding the Same

; FILE REFERENCE: LEX-0244-USA

; CURRENT APPLICATION NUMBER: US/09/969,532

; CURRENT FILING DATE: 2001-10-02

; PRIOR APPLICATION NUMBER: US 60/237,280

; PRIOR FILING DATE: 2000-10-02

; NUMBER OF SEQ ID NOS: 33

; SOFTWARE: FastSEQ for Windows Version 4.0

; SEQ ID NO 13

; LENGTH: 2694

; TYPE: DNA

; ORGANISM: homo sapiens

US-09-969-532-13



Qy 952 CCGTGGAGCAAGTGGTGGGCTGTGGGCTGGACTGCACCCACTGGCGGAGCCGTGAGTGC 1011  
 | | | | | | | | | | | | | | | | | |  
 Db 926 CTCTTCATGAAATAAAACCCCAAAGCATTGAG----AATGCCAGCGACATTGCTTTGTAC 981

Qy 1012 TCTGACCCAGCACCCCGCAACGGAGGGGAGGAGTGCCAGGGCACTGACCTGGACACCCGC 1071  
 | | | | | | | | | | | | | | | | | |  
 Db 982 TCGGGCTTGGGTGCTGCCGTGCTGGCCGTTGCAGTCCTGGTCATTGGTGT-----CACC 1035

Qy 1072 AACTGTACCACTGACCTCTGTGTACACAGTGCTTCTGGCCCTGAGGACGTGGCCCTCTAT 1131  
 | | | | | | | | | | | | | | | | | |  
 Db 1036 CTTTACAGACGGAGCCAGAGTGACTATGGCGTGGACGTCATTGACTCTTCTGCATTGACA 1095

Qy 1132 GTGGGCTCATCGCCGTGGCCGTCTGCCTGGTCCTGCTGCTGCTTGTCTCATCTCGTT 1191  
 | | | | | | | | | | | | | | | | | |  
 Db 1096 GGTGGCTTCCAGACCTTCAACTTCAAAACAGTCCGTCAAGGTAACCTCCCTGCTCCTGAAT 1155

Qy 1192 TATTGCCGGAAGAAGGAGGGGCTGGACTCAGATGTGGCTGACTCGTCCATTCTCACCTCA 1251  
 | | | | | | | | | | | | | | | | | |  
 Db 1156 TCTGCCATGCA-----GCCAGATCTGACAGTGAGCCGGACATACAGCGGACCCATCT 1207

Qy 1252 GGCTTCCAGCCCGTCAGCATCAAGCCCAGCAAAGCAGACAACCCCATCTGCTCACCATC 1311  
 | | | | | | | | | | | | | | | | | |  
 Db 1208 GTCTGCAGGACCCTCTGGACAAG--AGCTCATGACAGAGTCCTCACTCTTTAACCTT 1264

Qy 1312 CAGCCGGACCTCAGCACCACCACCACCTACCAGGGCAGTCTCTGTCCCCGGCAGGAT 1371  
 | | | | | | | | | | | | | | | | | |  
 Db 1265 TGTCGGACATCAAAGTGAAAGTCCAGAGCTCGTTCATGGTTTCCCTGGGAGTGTCTGAGA 1324

Qy 1372 GGGCCAGCCCCAAGTTCAGCTCACCAATGGGCACCTGCTCAGCCCCCTGGGTGGCGGC 1431  
 | | | | | | | | | | | | | | | | | |  
 Db 1325 GAGCTGAGTACCACGGCAAGAATCATTCAGGACTTTT----- 1362

Qy 1432 CGCCACACACTGCACCACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTCTCCCGCCTC 1491  
 | | | | | | | | | | | | | | | | | |  
 Db 1363 CCCCATGGAAACAACCACAGCTTTAGTACAATGCATCCAGAAATAAAATGCCCTACATC 1422

Qy 1492 TCCACCCAGAATACTTCCGCTCCCTGCCCCGAGGCACCAGCAACATGACCTATGGGACC 1551  
 | | | | | | | | | | | | | | | | | |  
 Db 1423 CAAAATCTG-----TCATCACTCCCCACAAGGACAGAAGTGAAGGACAACTGGTGTCT 1473

Qy 1552 TTCAACTTCCTCGGGGGCGGCTGATGATCCCTAATACAGGTATCAGCCTCCTCATCCCC 1611  
 | | | | | | | | | | | | | | | | | |  
 Db 1474 TTTGGCCATTTAGGGGGCGCTTAGTAATGCCAAATACAGGGGTGAGCTTACTCATACCA 1533

Qy 1612 CCAGATGCCATACCCGAGGGAAGATCTATGAGATCTACCTCACGCTGCACAAGCCGGAA 1671  
 | | | | | | | | | | | | | | | | | |  
 Db 1534 CACGGTGCCATCCAGAGGAGAATTCTTGGGAGATTTATATGTCCAT---CAACCAAGGT 1590

Qy 1672 GACGTGAGGTTGCCCCTAGCTGGCTGTCAGACCTGCTGAGTCCCATCGTTAGCTGTGGA 1731  
 | | | | | | | | | | | | | | | | | |  
 Db 1591 GAACCCAGCCTCCAGTCAGATGGCTCTGAGGTGCTCCTGAGTCCCTGAAGTCACCTGTGGT 1650

Qy 1732 CCCCCTGGCGTCTGCTCACCCGGCCAGTCATCCTGGCTATGGACCACTGTGGGGAGCCC 1791  
 | | | | | | | | | | | | | | | | | |  
 Db 1651 CCTCCAGACATGATCGTCACCACTCCCTTTGCATTGACCATCCCGCACTGTGCAGATGTC 1710

Qy 1792 AGCCCTGACAGCTGGAGCCTGCGCCTCAAAAAGCAGTCGTGCGAGGGCAGCTGGGAGGAT 1851

Db 1711 AGTTCTGAGCATTGGAATATCCATTTAAAGAAGAGGACACAGCAGGGCAAATGGGAGGAA 1770  
 Qy 1852 GTGCTGCACCTGGGCGAGGAGGCGCCCTCCACCTCTACTACTGCCAGCTGGAGGCCAGT 1911  
 Db 1771 GTGATGTCAGTGGAAGATGAATCTACATC-----CTGTTACTGCCTTTTGGACCCCTTT 1824  
 Qy 1912 GCCTGCTACGTCTTCACCGAGCAGCTGGGCGCCTTTGCCCTGGTGGGAGAGGCCCTCAGC 1971  
 Db 1825 GCGTGT CATGTGCTCCTGGACAGCTTTGGGACCTATGCGCTCACTGGAGAGCCAATCACA 1884  
 Qy 1972 GTGGCTGCCGCCAAGCGCCTCAAGCTGCTTCTGTTTGGCGCCGGTGGCCTGCACCTCCCTC 2031  
 Db 1885 GACTGTGCCGTGAAGCAACTGAAGGTGGCGGTTTTTGGCTGCATGTCCTGTAACCTCCCTG 1944  
 Qy 2032 GAGTACAACATCCGGGTCTACTGCCTGCATGACACCCACGATGCACTCAAGGAGGTGGTG 2091  
 Db 1945 GATTACAACCTTGAGAGTTTACTGTGTGGACAATACCCCTTGTGCATTTTCAGGAAGTGGTT 2004  
 Qy 2092 CAGCTGGAGAAGCAGCTGGGGGGACAGCTGATCCAGGAGCCACGGGTCTGCACCTTCAAG 2151  
 Db 2005 TCAGATGAAAGGCATCAAGGTGGACAGCTCCTGGAAGAACCAAAATTGCTGCATTTCAA 2064  
 Qy 2152 GACAGTTACCACAACCTGCGCCTATCCATCCACGATGTGCCCAGCTCCCTGTGGAAGAGT 2211  
 Db 2065 GGAATACCTTTAGTCTTCAGATTTCTGTCTTGATATTCCCCCATTCCTCTGGAGAATT 2124  
 Qy 2212 AAGCTCCTTGTGCTAGCTACCAGGAGATCCCCTTTTATCACATCTGGAATGGCACGCAGCGG 2271  
 Db 2125 AAACCATTCACTGCCTGCCAGGAAGTCCCGTTCTCCCGCGTGTGGTGCAGTAACCGGCAG 2184  
 Qy 2272 TACTTGCCTGCACCTTCACCCTGGAGCGTGTGAGCCCCAGCACTAGTGACCTGGCCTGC 2331  
 Db 2185 CCCCTGCACTGTGCCTTCTCCCTGGAGCGTTATACGCCCCTACCACCCAGCTGTCTGCTGC 2244  
 Qy 2332 AAGCTGTGGGTGTGGCAGGTGGAGGGCGACGGGCAGAGCTTCAGCATCAACTTCAACATC 2391  
 Db 2245 AAAATCTGCATTCGGCAGCTCAAAGGCCATGAACAGATCCTCCAAGTGCAGACATCAATC 2304  
 Qy 2392 ACCAAGGACACAAGGTTTGCTGAGCTGCTGGCTCTGGAGAGTGAAGCGGGGGTCCCAGCC 2451  
 Db 2305 CTAGAGAGTGAACGAGAAACCATCACTTTCTTCGCACAAGAGGACAGCACTTTCCCTGCA 2364  
 Qy 2452 CTGGTGGGCCCCAGTGCCTTCAAGATCCCCTTCCTCATTCGGCAGAAGATAATTTCAGC 2511  
 Db 2365 CAGACTGGCCCCAAAGCCTTCAAATTCCTACTCCATCAGACAGCGGATTTGTGCTACA 2424  
 Qy 2512 CTGGACCCACCCTGTAGGCGGGGTGCCGACTGGCGGACTCTGGCCCAGAACTCCACCTG 2571  
 Db 2425 TTTGATACCCCAATGCCAAAGGCAAGGACTGGCAGATGTTAGCACAGAAAAACAGCATC 2484  
 Qy 2572 GACAGCCATCTCAGCTTCTTTGCCTCCAAGCCCAGCCCCACAGCCATGATCCTCAACCTG 2631  
 Db 2485 AACAGGAATTTATCTTATTTTCGCTACACAAAGTAGCCCATCTGCTGTCAATTTGAACCTG 2544  
 Qy 2632 TGGGAGGCGCGGCACTTCCCCAACGGCAACCTCAGCCAGCTGGCTGCAGCAGTGGCTGGA 2691

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Db      2545 TGGGAAGCTCGTCATCAGCATGATGGTGTATCTTGACTCCCTGGCCTGTGCCCTTGAAGAG 2604
Qy      2692 CTGGGCCAGCCAGACGCTGGCCTCTTCACAGTGTGGGAGGCTGAG 2736
          | | | | | | | | | | | | | | | | | |
Db      2605 ATGGGAGGACACACACGAAACTCTCAAACATTTCAGAATCCCAG 2649

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RESULT 12

US-09-969-532-15

; Sequence 15, Application US/09969532

; Patent No. 6777232

; GENERAL INFORMATION:

; APPLICANT: Walke, D. Wade

; APPLICANT: Scoville, John

; TITLE OF INVENTION: No. 6777232e1 Human Membrane Proteins and Polynucleotides  
Encoding the Same

; FILE REFERENCE: LEX-0244-USA

; CURRENT APPLICATION NUMBER: US/09/969,532

; CURRENT FILING DATE: 2001-10-02

; PRIOR APPLICATION NUMBER: US 60/237,280

; PRIOR FILING DATE: 2000-10-02

; NUMBER OF SEQ ID NOS: 33

; SOFTWARE: FastSEQ for Windows Version 4.0

; SEQ ID NO 15

; LENGTH: 2661

; TYPE: DNA

; ORGANISM: homo sapiens

US-09-969-532-15

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Query Match          16.0%; Score 439.8; DB 4; Length 2661;
Best Local Similarity 51.2%; Pred. No. 9.9e-89;
Matches 1313; Conservative 0; Mismatches 1147; Indels 105; Gaps 8;

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Qy      172 CTTCCCCACTTCCTGGTGGAGCCCGAGGATGTGTACATCGTCAAGAACAAGCCAGTGCTG 231
          | | | | | | | | | | | | | | | | | |
Db      157 CTGCCTCATTTTCATAGAGGAGCCAGATGATGCTTATATTATCAAGAGCAACCCTATTGCA 216

Qy      232 CTTGTGTGCAAGGCCGTGCCCCGCCACGCAGATCTTCTTCAAGTGCAACGGGGAGTGGGTG 291
          | | | | | | | | | | | | | | | | | |
Db      217 CTCAGGTGCAAAGCGAGGCCAGCCATGCAGATATTCTTCAAATGCAACGGCGAGTGGGTC 276

Qy      292 CGCCAGGTGGACCACGTGATCGAGCGCAGCACAGACGGGAGCAGTGGGCTGCCACCATG 351
          | | | | | | | | | | | | | | | | | |
Db      277 CATCAGAACGAGCACGTCTCTGAAGAGACTCTGGACGAGAGCTCAGGTTTGAAGGTCCGC 336

Qy      352 GAGGTCCGCATTAATGTCTCAAGGCAGCAGGTGCGAGAAGGTGTTTCGGGCTGGAGGAATAC 411
          | | | | | | | | | | | | | | | | | |
Db      337 GAAGTGTTTCATCAATGTTACTAGGCAACAGGTGGAGGACTTCCATGGGCCCAGGACTAT 396

Qy      412 TGGTGCCAGTGCGTGGCATGGAGCTCCTCGGGCACCACCAAGAGTCAGAAGGCCTACATC 471
          | | | | | | | | | | | | | | | | | |
Db      397 TGGTGCCAGTGTGTGGCGTGGAGCCACCTGGGTACCTCCAAGAGCAGGAAGGCCTCTGTG 456

Qy      472 CGCATAGCCAGATTGCGCAAGAACTTCGAGCAGGAGCCGCTGGCCAAGGAGGTGTCCCTG 531
          | | | | | | | | | | | | | | | | | |
Db      457 CGCATAGCCTATTTACGGAAAACTTTGAACAAGACCCACAAGGAAGGAAGTTCCCATT 516

```

Qy	532	GAGCAGGGCATCGTGCTGCCCTGCCGTCCACCGGAGGGGCATCCCTCCAGCCGAGGTGGAG	591
Db	517	GAAGGCATGATTGTACTGCACTGCCGCCACCAGAGGGAGTCCCTGCTGCCGAGGTGGAA	576
Qy	592	TGGCTCCGGAACGAGGACCTGGTGGACCCGTCCTGGACCCCAATGTATACATCACGCGG	651
Db	577	TGGCTGAAAAATGAAGAGCCCATTGACTCTGAACAAGACGAGAACATTGACACCAGGGCT	636
Qy	652	GAGCACAGCCTGGTGGTGCACAGGCCCCGCTTGTGTGACACGGCCAATAACACCTGCGTG	711
Db	637	GACCATAACCTGATCATCAGGCAGGCACGGCTCTCGGACTCAGGAAATTACACCTGCATG	696
Qy	712	GCCAAGAACATCGTGGCACGTCGCCGCAGCGCCTCCGCTGCTGTATCGTCTACGTGAAC	771
Db	697	GCAGCCAACATCGTGGCTAAGAGGAGAAGCCTGTCGGCCACTGTTGTGGTCTACGTGGAT	756
Qy	772	GGTGGGTGGTTCGACGTGGACCGAGTGGTCCGTCTGCAGCGCCAGCTGTGGGCGCGGCTGG	831
Db	757	GGGAGCTGGGAAGTGTGGAGCGAATGGTCCGTCTGCAGTCCAGAGTGTG-----AA	807
Qy	832	CAGAAACGGAGCCGGAGCTGCACCAACCCGGCGCCTCTCAACGGGGGCGCTTTCTGTGAG	891
Db	808	CATTTGCGGATCCGGGAGTGCACAGCACCAACCCCGAGAAATGGGGGCAAATTCGTGTAA	867
Qy	892	GGGCAGAATGTCCAGAAAACAGCCTGCGCCACCCTGTGCCAGTAGACGGCAGCTGGAGC	951
Db	868	GGTCTAAGCCAGGAATCTGAAACTGCACAGATGGTCTTTGCATCCTAGGCATTGAGAAT	927
Qy	952	CCGTGGAGCAAGTGGTTCGGCCTGTGGGCTGGACTGCACCCACTGGCGGAGCCGTGAGTGC	1011
Db	928	GCCAGCGACATTGCTTTGTACTCGGGCTTGG-----	958
Qy	1012	TCTGACCCAGCACCCCGCAACGGAGGGGAGGAGTGCCAGGGCACTGACCTGGACACCCGC	1071
Db	959	-----GTGCTGCCGTCTGTGGCCGTTGCAGTCTTGGTCATTGGTGTACC	1002
Qy	1072	AACTGTACCAAGTGACCTCTGTGTACACAGTGCTTCTGGCCCTGAGGACGTGGCCCTCTAT	1131
Db	1003	CTTTACAGACGGAGCCAGAGTGACTATGGCGTGGACGTCATTGACTCTTCTGCATTGACA	1062
Qy	1132	GTGGGCCCTCATCGCCGTGGCCGTCTGCCTGGTCCCTGCTGCTGCTTGTCTCATCTCGTT	1191
Db	1063	GGTGGCTTCCAGACCTTCAACTTCAAAACAGTCCGTCAAGGTAACCTCCCTGCTCCTGAAT	1122
Qy	1192	TATTGCCGGAAGAAGGAGGGGCTGGACTCAGATGTGGCTGACTCGTCCATTCTCACCTCA	1251
		.	
Db	1123	TCTGCCATGCA-----GCCAGATCTGACAGTGAGCCGGACATAACAGCGGACCCATCT	1174
Qy	1252	GGCTTCCAGCCCGTCAGCATCAAGCCAGCAAAGCAGACAACCCCATCTGCTCACCATC	1311
Db	1175	GTCTGCAGGACCCTCTGGACAAGG---AGCTCATGACAGAGTCTCACTCTTTAACCCCTT	1231
Qy	1312	CAGCCGGACCTCAGCACCAACCACCACTACCAGGGCAGTCTCTGTCCCCGGCAGGAT	1371
Db	1232	TGTCGGACATCAAAGTGAAAGTCCAGAGCTCGTTTCATGGTTTCCCTGGGAGTGTCTGAGA	1291
Qy	1372	GGGCCCAGCCCCAAGTTCCAGCTCACCAATGGGCACCTGCTCAGCCCCCTGGGTGGCGGC	1431

Db	1292	GAGCTGAGTACCACGGCAAGAATCATTCCAGGACTTTT-----	1329
Qy	1432	CGCCACACACTGCACCACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTCTCCCGCCTC	1491
Db	1330	CCCCATGGAAACAACCACAGCTTTAGTACAATGCATCCCAGAAATAAAATGCCCTACATC	1389
Qy	1492	TCCACCCAGAATACTTCCGCTCCCTGCCCCGAGGCACCAGCAACATGACCTATGGGACC	1551
Db	1390	CAAATCTGT-----CATCACTCCCCACAAGGACAGAACTGAGGACAACCTGGTGTC	1440
Qy	1552	TTCAACTTCCTCGGGGGCCGGCTGATGATCCCTAATACAGGTATCAGCCTCCTCATCCCC	1611
Db	1441	TTTGGCCATTTAGGGGGGCGCTTAGTAATGCCAAATACAGGGGTGAGCTTACTCATACCA	1500
Qy	1612	CCAGATGCCATACCCCGAGGGAAGATCTATGAGATCTACCTCACGCTGCACAAGCCGGAA	1671
Db	1501	CACGGTGCCATCCCAGAGGAGAATTCTTGGGAGATTTATATGTCCAT---CAACCAAGGT	1557
Qy	1672	GACGTGAGGTTGCCCCTAGCTGGCTGTCAGACCCTGCTGAGTCCCATCGTTAGCTGTGGA	1731
Db	1558	GAACCCAGCCTCCAGTCAGATGGCTCTGAGGTGCTCCTGAGTCCTGAAGTCACCTGTGGT	1617
Qy	1732	CCCCCTGGCGTCTGCTCACCCGGCCAGTCATCCTGGCTATGGACCACTGTGGGGAGCCC	1791
Db	1618	CCTCCAGACATGATCGTCACCACTCCCTTTGCATTGACCATCCCGCACTGTGCAGATGTC	1677
Qy	1792	AGCCCTGACAGCTGGAGCCTGCGCCTCAAAAAGCAGTCGTGCGAGGGCAGCTGGGAGGAT	1851
Db	1678	AGTTCTGAGCATTGGAATATCCATTTAAAGAAGAGGACACAGCAGGGCAAATGGGAGGAA	1737
Qy	1852	GTGCTGCACCTGGGCGAGGAGGCGCCCTCCACCTCTACTACTGCCAGCTGGAGGCCAGT	1911
Db	1738	GTGATGTCAGTGGAAGATGAATCTACATC-----CTGTTACTGCCTTTTGGACCCCTTT	1791
Qy	1912	GCCTGCTACGTCTTCACCGAGCAGCTGGGCCGCTTTGCCCTGGTGGGAGAGGCCCTCAGC	1971
Db	1792	GCGTGTCATGTGCTCCTGGACAGCTTTGGGACCTATGCGCTCACTGGAGAGCCAATCACA	1851
Qy	1972	GTGGCTGCCGCCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGGTGGCCTGCACCTCCCTC	2031
Db	1852	GACTGTGCCGTGAAGCAACTGAAGGTGGCGGTTTTTTGGCTGCATGTCCTGTAACCTCCCTG	1911
Qy	2032	GAGTACAACATCCGGGTCTACTGCCTGCATGACACCCACGATGCACTCAAGGAGGTGGTG	2091
Db	1912	GATTACAACCTTGAGAGTTTACTGTGTGGACAATACCCCTTGTGCATTTTCAGGAAGTGTT	1971
Qy	2092	CAGCTGGAGAAGCAGCTGGGGGGACAGCTGATCCAGGAGCCACGGTCTGCACCTTCAAG	2151
Db	1972	TCAGATGAAAGGCATCAAGGTGGACAGCTCCTGGAAGAACCAAAATGCTGCATTTCAAA	2031
Qy	2152	GACAGTTACCACAACCTGCGCCTATCCATCCACGATGTGCCCAGCTCCCTGTGGAAGAGT	2211
Db	2032	GGGAATACCTTTAGTCTTCAGATTTCTGTCTTGATATCCCCCATTCCTCTGGAGAATT	2091
Qy	2212	AAGCTCCTTGTGCTCAGCTACCAGGAGATCCCCTTTTATCACATCTGGAATGGCACGCAGCGG	2271





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; LENGTH: 349
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 207..347
; NAME/KEY: sig_peptide
; LOCATION: 207..278
; OTHER INFORMATION: Von Heijne matrix
; OTHER INFORMATION: score 5.40000009536743
; OTHER INFORMATION: seq SCCCLSSSSFIAG/RR
US-09-471-276-345
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Query Match          11.7%; Score 323; DB 4; Length 349;
Best Local Similarity 98.8%; Pred. No. 6.9e-63;
Matches 335; Conservative 1; Mismatches 2; Indels 1; Gaps 1;
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Qy      934 GTAGACGGCAGCTGGAGCCCGTGGAGCAAGTGGTCGGCCTGTGGGCTGGACTGCACCCAC 993
      || |||||
Db      12  GTGGACGGCAGCTGGAGCCCGTGGAGCAAGTGGTCGGCCTGTGGGCTGGACTGCACCCAC 71

Qy      994 TGGCGGAGCCGTGAGTGCTCTGACCCAGCACCCCGCAACGGAGGGGAGGAGTGCCAGGGC 1053
      ||||| |||||
Db      72  TGGCGGA-CCGTGAGTGCTCTGACCCAGCACCCCGCAACGGAGGGGAGGAGTGCCAGGGC 130

Qy      1054 ACTGACCTGGACACCCGCAACTGTACCAGTGACCTCTGTGTACACAGTGCTTCTGGCCCT 1113
      ||||| |||||
Db      131 ACTGACCTGGACACCCGCAACTGTACCAGTGACCTCTGTGTACACACTGCTTCTGGCCCT 190

Qy      1114 GAGGACGTGGCCCTCTATGTGGGCCTCATCGCCGTGGCCGTCTGCCTGGTCCTGCTGCTG 1173
      ||||| |||||
Db      191 GAGGACGTGGCCCTCTATGTGGGCCTCATCGCCGTGGCCGTCTGCBTGGTCCTGCTGCTG 250

Qy      1174 CTTGTCCTCATCCTCGTTTATTGCCGGAAGAAGGAGGGGCTGGACTCAGATGTGGCTGAC 1233
      ||||| |||||
Db      251 CTTGTCCTCATCCTCGTTTATTGCCGGAAGAAGGAGGGGCTGGACTCAGATGTGGCTGAC 310

Qy      1234 TCGTCCATTCTCACCTCAGGCTTCCAGCCCGTCAGCATC 1272
      |||||
Db      311 TCGTCCATTCTCACCTCAGGCTTCCAGCCCGTCAGCATC 349
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#### RESULT 14

US-09-969-532-31

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; Sequence 31, Application US/09969532
; Patent No. 6777232
; GENERAL INFORMATION:
; APPLICANT: Walke, D. Wade
; APPLICANT: Scoville, John
; TITLE OF INVENTION: No. 6777232el Human Membrane Proteins and Polynucleotides
Encoding the Same
; FILE REFERENCE: LEX-0244-USA
; CURRENT APPLICATION NUMBER: US/09/969,532
; CURRENT FILING DATE: 2001-10-02
; PRIOR APPLICATION NUMBER: US 60/237,280
; PRIOR FILING DATE: 2000-10-02
; NUMBER OF SEQ ID NOS: 33
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; SOFTWARE: FastSEQ for Windows Version 4.0  
; SEQ ID NO 31  
; LENGTH: 1968  
; TYPE: DNA  
; ORGANISM: homo sapiens  
US-09-969-532-31

Query Match 10.7%; Score 293.2; DB 4; Length 1968;  
Best Local Similarity 53.7%; Pred. No. 5.8e-56;  
Matches 657; Conservative 0; Mismatches 558; Indels 9; Gaps 2;

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Qy      1513 TCCCTGCCCCGAGGCACCAACATGACCTATGGGACCTTCAACTTCCTCGGGGGCCGG 1572
          || || || | | || | || | || | || | || || ||
Db      709 TCACTCCCCACAAGGACAGAAGTGAAGGACAAGTGGTGTCTTTGGCCATTTAGGGGGGCGC 768

Qy      1573 CTGATGATCCCTAATACAGGTATCAGCCTCCTCATCCCCCAGATGCCATACCCCGAGGG 1632
          | | || | | || || || | || | || | || || || |
Db      769 TTAGTAATGCCAAATACAGGGGTGAGCTTACTCATACCACACGGTGCCATCCCAGAGGAG 828

Qy      1633 AAGATCTATGAGATCTACCTCACGCTGCACAAGCCGGAAGACGTGAGGTTGCCCTAGCT 1692
          || | || || || | | | | | || | | | | || |
Db      829 AATTCTTGGGAGATTTATATGTCCATCAACCAAGGTGAACCC---AGCCTCCAGTCAGAT 885

Qy      1693 GGCTGTCAGACCCTGCTGAGTCCCATCGTTAGCTGTGGACCCCCTGGCGTCCTGCTCACC 1752
          || || | || | || || || | || | || || | || ||
Db      886 GGCTCTGAGGTGCTCCTGAGTCTGAAGTCACCTGTGGTCTCCAGACATGATCGTCACC 945

Qy      1753 CGGCCAGTCATCCTGGCTATGGACCACTGTGGGGAGCCCAGCCCTGACAGCTGGAGCCTG 1812
          || | | || || || || || || || || || || || |
Db      946 ACTCCCTTTGCATTGACCATCCCGCACTGTGCAGATGTCAGTTCTGAGCATTTGGAATATC 1005

Qy      1813 CGCCTCAAAAAGCAGTCGTGCGAGGGCAGCTGGGAGGATGTGCTGCACCTGGGCGAGGAG 1872
          | | || || | | || || || || || || || || ||
Db      1006 CATTTAAAGAAGAGGACACAGCAGGGCAAATGGGAGGAAGTGATGTCAGTGGAAGATGAA 1065

Qy      1873 GCGCCCTCCACCTCTACTACTGCCAGCTGGAGGCCAGTGCCTGCTACGTCTTCACCGAG 1932
          | | || | || || || || || || || || || || ||
Db      1066 TCTACATC-----CTGTTACTGCCTTTTGGACCCCTTTGCGTGTGATGTGCTCCTGGAC 1119

Qy      1933 CAGCTGGGCGCTTTTGCCCTGGTGGGAGAGGCCCTCAGCGTGGCTGCCGCCAAGCGCCTC 1992
          | || | || || || || || || | || | || || || ||
Db      1120 AGCTTTGGGACCTATGCGCTCACTGGAGAGCCAATCACAGACTGTGCCGTGAAGCAACTG 1179

Qy      1993 AAGCTGCTTCTGTTTGCGCCGGTGGCCTGCACCTCCCTCGAGTACAACATCCGGGTCTAC 2052
          ||| || | || || | || || | || || | || || || ||
Db      1180 AAGGTGGCGGTTTTTGGCTGCATGTCTGTAACTCCCTGGATTACAACCTTGAGAGTTTAC 1239

Qy      2053 TGCCTGCATGACACCCACGATGCACTCAAGGAGGTGGTGCAGCTGGAGAAGCAGCTGGGG 2112
          || || | | || || || || | || || || || || || ||
Db      1240 TGTGTGGACAATACCCCTTGTGCATTTAGGAAGTGGTTTCAGATGAAAGGCATCAAGGT 1299

Qy      2113 GGACAGCTGATCCAGGAGCCACGGGTCTGCACTTCAAGGACAGTTACCACAACCTGCGC 2172
          || || || || | || || || || || || || || || ||
Db      1300 GGACAGCTCCTGGAAGAACCAAAATTGCTGCATTTCAAAGGGAATACCTTTAGTCTTCAG 1359

Qy      2173 CTATCCATCCACGATGTGCCAGCTCCCTGTGGAAGAGTAAGCTCCTTGTGAGCTACCAG 2232
          | || || || | || | || || || || || | | || || ||
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Db 1360 ATTTCTGTCCTTGATATTTCCCCATTCCTCTGGAGAATTAAACCATTCACTGCCTGCCAG 1419

Qy 2233 GAGATCCCCTTTTATCACATCTGGAATGGCACGCAGCGGTACTTGCACTGCACCTTCACC 2292  
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Db 1420 GAAGTCCCGTTCTCCCGCGTGTGGTGCAGTAACCGGCAGCCCCTGCACTGTGCCTTCTCC 1479

Qy 2293 CTGGAGCGTGTGAGCCCCAGCACTAGTGACCTGGCCTGCAAGCTGTGGGTGTGGCAGGTG 2352  
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Db 1480 CTGGAGCGTTATACGCCCCACTACCACCCAGCTGTCCTGCAAAATCTGCATTGCGCAGCTC 1539

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Db 1540 AAAGGCCATGAACAGATCCTCCAAGTGCAGACATCAATCCTAGAGAGTGAACGAGAAACC 1599

Qy 2413 GAGCTGCTGGCTCTGGAGAGTGAAGCGGGGTCCCAGCCCTGGTGGGCCCCAGTGCCTTC 2472  
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Db 1600 ATCACTTTCTTCGCACAAGAGGACAGCACTTTCCCTGCACAGACTGGCCCCAAAGCCTTC 1659

Qy 2473 AAGATCCCCTTCCTCATTCGGCAGAAGATAATTTCCAGCCTGGACCCACCCTGTAGGCGG 2532  
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Db 1660 AAAATTCCTACTCCATCAGACAGCGGATTTGTGCTACATTTGATACCCCCAATGCCAAA 1719

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Db 1900 CTCTCAAACATTTCAGAATCCAG 1923

# RESULT 15

US-09-969-532-29

; Sequence 29, Application US/09969532

; Patent No. 6777232

; GENERAL INFORMATION:

; APPLICANT: Walke, D. Wade

; APPLICANT: Scoville, John

; TITLE OF INVENTION: No. 6777232el Human Membrane Proteins and Polynucleotides Encoding the Same

; FILE REFERENCE: LEX-0244-USA

; CURRENT APPLICATION NUMBER: US/09/969,532

; CURRENT FILING DATE: 2001-10-02

; PRIOR APPLICATION NUMBER: US 60/237,280

; PRIOR FILING DATE: 2000-10-02

; NUMBER OF SEQ ID NOS: 33

; SOFTWARE: FastSEQ for Windows Version 4.0

; SEQ ID NO 29

; LENGTH: 2001

; TYPE: DNA  
; ORGANISM: homo sapiens  
US-09-969-532-29

Query Match 10.7%; Score 293.2; DB 4; Length 2001;  
Best Local Similarity 53.7%; Pred. No. 5.8e-56;  
Matches 657; Conservative 0; Mismatches 558; Indels 9; Gaps 2;

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Qy      1933 CAGCTGGGCCGCTTTGCCCTGGTGGGAGAGGCCCTCAGCGTGGCTGCCGCCAAGCGCCTC 1992
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Job time : 450.33 secs

GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: March 6, 2005, 05:25:16 ; Search time 1488.37 Seconds  
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10971.677 Million cell updates/sec

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Searched: 5401638 seqs, 2966923429 residues

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Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

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- 2: /cgn2\_6/ptodata/2/pubpna/PCT\_NEW\_PUB.seq:\*
- 3: /cgn2\_6/ptodata/2/pubpna/US06\_NEW\_PUB.seq:\*
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- 5: /cgn2\_6/ptodata/2/pubpna/US07\_NEW\_PUB.seq:\*
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- 7: /cgn2\_6/ptodata/2/pubpna/US08\_NEW\_PUB.seq:\*
- 8: /cgn2\_6/ptodata/2/pubpna/US08\_PUBCOMB.seq:\*
- 9: /cgn2\_6/ptodata/2/pubpna/US09A\_PUBCOMB.seq:\*
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- 11: /cgn2\_6/ptodata/2/pubpna/US09C\_PUBCOMB.seq:\*
- 12: /cgn2\_6/ptodata/2/pubpna/US09\_NEW\_PUB.seq:\*
- 13: /cgn2\_6/ptodata/2/pubpna/US10A\_PUBCOMB.seq:\*
- 14: /cgn2\_6/ptodata/2/pubpna/US10B\_PUBCOMB.seq:\*
- 15: /cgn2\_6/ptodata/2/pubpna/US10C\_PUBCOMB.seq:\*
- 16: /cgn2\_6/ptodata/2/pubpna/US10D\_PUBCOMB.seq:\*
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- 19: /cgn2\_6/ptodata/2/pubpna/US10\_NEW\_PUB.seq:\*
- 20: /cgn2\_6/ptodata/2/pubpna/US11\_NEW\_PUB.seq:\*
- 21: /cgn2\_6/ptodata/2/pubpna/US60\_NEW\_PUB.seq:\*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result		%				
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1	2752	100.0	2752	10	US-09-918-779-1	Sequence 1, Appli
2	2752	100.0	2752	17	US-10-624-932-1	Sequence 1, Appli
3	2676.4	97.3	2881	10	US-09-970-944-1	Sequence 1, Appli
4	2356	85.6	3561	18	US-10-643-795A-77	Sequence 77, Appl
5	2356	85.6	3580	17	US-10-311-623-13	Sequence 13, Appl
6	2259	82.1	3014	10	US-09-933-261-1	Sequence 1, Appli
7	2259	82.1	3014	14	US-10-256-702-1	Sequence 1, Appli
8	2252.2	81.8	2697	16	US-10-240-154-15	Sequence 15, Appl
9	1562.4	56.8	1787	10	US-09-933-261-2	Sequence 2, Appli
10	1562.4	56.8	1787	14	US-10-256-702-2	Sequence 2, Appli
11	1206.6	43.8	1321	17	US-10-296-115-365	Sequence 365, App
12	936.2	34.0	2860	17	US-10-087-684-1	Sequence 1, Appli
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15	936.2	34.0	2860	17	US-10-218-779-3	Sequence 3, Appli
16	913.6	33.2	2895	17	US-10-037-417-37	Sequence 37, Appl
17	904	32.8	3485	9	US-09-816-828-18	Sequence 18, Appl
18	902.4	32.8	3884	14	US-10-028-072-145	Sequence 145, App
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33	902.4	32.8	3884	14	US-10-121-050-145	Sequence 145, App
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35	902.4	32.8	3884	14	US-10-143-032-145	Sequence 145, App
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37	902.4	32.8	3884	14	US-10-123-236-145	Sequence 145, App
38	902.4	32.8	3884	14	US-10-123-261-145	Sequence 145, App
39	902.4	32.8	3884	14	US-10-140-921-145	Sequence 145, App
40	902.4	32.8	3884	14	US-10-140-928-145	Sequence 145, App
41	902.4	32.8	3884	14	US-10-121-045-145	Sequence 145, App
42	902.4	32.8	3884	14	US-10-123-292-145	Sequence 145, App
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44	902.4	32.8	3884	14	US-10-124-819-145	Sequence 145, App
45	902.4	32.8	3884	14	US-10-124-822-145	Sequence 145, App

## ALIGNMENTS

RESULT 1  
US-09-918-779-1

; Sequence 1, Application US/09918779  
; Publication No. US20030064369A1  
; GENERAL INFORMATION:  
; APPLICANT: Taupier, Raymond  
; APPLICANT: Padigaru, Muralidhara  
; APPLICANT: Rastelli, Luca  
; APPLICANT: Spaderna, Steven  
; APPLICANT: Shimkets, Richard  
; APPLICANT: Zerhusen, Bryan  
; APPLICANT: Spytek, Kimberly  
; APPLICANT: Shenoy, Suresh  
; APPLICANT: Li, Li  
; APPLICANT: Gusev, Vladimir  
; APPLICANT: Grosse, William  
; APPLICANT: Alsobrook, John  
; APPLICANT: Lepley, Denise  
; APPLICANT: Burgess, Catherine  
; APPLICANT: Gerlach, Valerie  
; APPLICANT: Ellerman, Karen  
; APPLICANT: MacDougall, John  
; APPLICANT: Stone, David  
; APPLICANT: Smithson, Glennda  
; TITLE OF INVENTION: Novel Proteins and Nucleic Acids Encoding Same  
; FILE REFERENCE: 21402-074 US  
; CURRENT APPLICATION NUMBER: US/09/918,779  
; CURRENT FILING DATE: 2001-07-30  
; PRIOR APPLICATION NUMBER: 60/221,409  
; PRIOR FILING DATE: 2000-07-28  
; PRIOR APPLICATION NUMBER: 60/222,840  
; PRIOR FILING DATE: 2000-08-04  
; PRIOR APPLICATION NUMBER: 60/223,752  
; PRIOR FILING DATE: 2000-08-08  
; PRIOR APPLICATION NUMBER: 60/223,762  
; PRIOR FILING DATE: 2000-08-08  
; PRIOR APPLICATION NUMBER: 60/223,770  
; PRIOR FILING DATE: 2000-08-08  
; PRIOR APPLICATION NUMBER: 60/223,769  
; PRIOR FILING DATE: 2000-08-08  
; PRIOR APPLICATION NUMBER: 60/225,146  
; PRIOR FILING DATE: 2000-08-14  
; PRIOR APPLICATION NUMBER: 60/225,392  
; PRIOR FILING DATE: 2000-08-15  
; PRIOR APPLICATION NUMBER: 60/225,470  
; PRIOR FILING DATE: 2000-08-15  
; PRIOR APPLICATION NUMBER: 60/225,697  
; PRIOR FILING DATE: 2000-08-16  
; PRIOR APPLICATION NUMBER: 60/263,662  
; PRIOR FILING DATE: 2001-02-01  
; PRIOR APPLICATION NUMBER: 60/281,645  
; PRIOR FILING DATE: 2001-04-05  
; NUMBER OF SEQ ID NOS: 61  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 1  
; LENGTH: 2752  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-918-779-1



Query Match 100.0%; Score 2752; DB 10; Length 2752;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 2752; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy	1561	CTCGGGGGCCGGCTGATGATCCCTAATACAGGTATCAGCCTCCTCATCCCCCAGATGCC	1620
Db	1561	CTCGGGGGCCGGCTGATGATCCCTAATACAGGTATCAGCCTCCTCATCCCCCAGATGCC	1620
Qy	1621	ATACCCCGAGGGAAGATCTATGAGATCTACCTCACGCTGCACAAGCCGGAAGACGTGAGG	1680

Db	1621		ATACCCCGAGGGAAGATCTATGAGATCTACCTCACGCTGCACAAGCCGGAAGACGTGAGG	1680
Qy	1681		TTGCCCCTAGCTGGCTGTCAGACCCTGCTGAGTCCCATCGTTAGCTGTGGACCCCCTGGC	1740
Db	1681		TTGCCCCTAGCTGGCTGTCAGACCCTGCTGAGTCCCATCGTTAGCTGTGGACCCCCTGGC	1740
Qy	1741		GTCCTGCTCACCCGGCCAGTCATCCTGGCTATGGACCACTGTGGGGAGCCCAGCCCTGAC	1800
Db	1741		GTCCTGCTCACCCGGCCAGTCATCCTGGCTATGGACCACTGTGGGGAGCCCAGCCCTGAC	1800
Qy	1801		AGCTGGAGCCTGCGCCTCAAAAAGCAGTCGTGCGAGGGCAGCTGGGAGGATGTGCTGCAC	1860
Db	1801		AGCTGGAGCCTGCGCCTCAAAAAGCAGTCGTGCGAGGGCAGCTGGGAGGATGTGCTGCAC	1860
Qy	1861		CTGGGCGAGGAGGCGCCCTCCACCTCTACTACTGCCAGCTGGAGGCCAGTGCCTGCTAC	1920
Db	1861		CTGGGCGAGGAGGCGCCCTCCACCTCTACTACTGCCAGCTGGAGGCCAGTGCCTGCTAC	1920
Qy	1921		GTCTTCACCGAGCAGCTGGGCCGCTTTGCCCTGGTGGGAGAGGCCCTCAGCGTGGCTGCC	1980
Db	1921		GTCTTCACCGAGCAGCTGGGCCGCTTTGCCCTGGTGGGAGAGGCCCTCAGCGTGGCTGCC	1980
Qy	1981		GCCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGGTGGCCTGCACCTCCCTCGAGTACAAC	2040
Db	1981		GCCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGGTGGCCTGCACCTCCCTCGAGTACAAC	2040
Qy	2041		ATCCGGGTCTACTGCCTGCATGACACCCACGATGCACTCAAGGAGGTGGTGCAGCTGGAG	2100
Db	2041		ATCCGGGTCTACTGCCTGCATGACACCCACGATGCACTCAAGGAGGTGGTGCAGCTGGAG	2100
Qy	2101		AAGCAGCTGGGGGGACAGCTGATCCAGGAGCCACGGGTCCTGCACTTCAAGGACAGTTAC	2160
Db	2101		AAGCAGCTGGGGGGACAGCTGATCCAGGAGCCACGGGTCCTGCACTTCAAGGACAGTTAC	2160
Qy	2161		CACAACCTGCGCCTATCCATCCACGATGTGCCAGCTCCCTGTGGAAGAGTAAGCTCCTT	2220
Db	2161		CACAACCTGCGCCTATCCATCCACGATGTGCCAGCTCCCTGTGGAAGAGTAAGCTCCTT	2220
Qy	2221		GTCAGCTACCAGGAGATCCCCTTTTATCACATCTGGAATGGCACGCAGCGGTACTTGCAC	2280
Db	2221		GTCAGCTACCAGGAGATCCCCTTTTATCACATCTGGAATGGCACGCAGCGGTACTTGCAC	2280
Qy	2281		TGCACCTTCACCCTGGAGCGTGTGAGCCCCAGCACTAGTGACCTGGCCTGCAAGCTGTGG	2340
Db	2281		TGCACCTTCACCCTGGAGCGTGTGAGCCCCAGCACTAGTGACCTGGCCTGCAAGCTGTGG	2340
Qy	2341		GTGTGGCAGGTGGAGGGCGACGGGCAGAGCTTCAGCATCAACTTCAACATCACCAAGGAC	2400
Db	2341		GTGTGGCAGGTGGAGGGCGACGGGCAGAGCTTCAGCATCAACTTCAACATCACCAAGGAC	2400
Qy	2401		ACAAGGTTTGCTGAGCTGCTGGCTCTGGAGAGTGAAGCGGGGTCCCAGCCCTGGTGGGC	2460
Db	2401		ACAAGGTTTGCTGAGCTGCTGGCTCTGGAGAGTGAAGCGGGGTCCCAGCCCTGGTGGGC	2460
Qy	2461		CCCAGTGCCTTCAAGATCCCCTTCCTCATTCGGCAGAAGATAATTTCCAGCCTGGACCCA	2520

Db 2461 CCCAGTGCCTTCAAGATCCCCTTCCTCATTCGGCAGAAGATAATTTCCAGCCTGGACCCA 2520  
 Qy 2521 CCCTGTAGGCGGGGTGCCGACTGGCGGACTCTGGCCCAGAACTCCACCTGGACAGCCAT 2580  
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
 Db 2521 CCCTGTAGGCGGGGTGCCGACTGGCGGACTCTGGCCCAGAACTCCACCTGGACAGCCAT 2580  
 Qy 2581 CTCAGCTTCTTTGCCTCCAAGCCCAGCCCCACAGCCATGATCCTCAACCTGTGGGAGGCG 2640  
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
 Db 2581 CTCAGCTTCTTTGCCTCCAAGCCCAGCCCCACAGCCATGATCCTCAACCTGTGGGAGGCG 2640  
 Qy 2641 CGGCACTTCCCCAACGGCAACCTCAGCCAGCTGGCTGCAGCAGTGGCTGGACTGGGCCAG 2700  
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
 Db 2641 CGGCACTTCCCCAACGGCAACCTCAGCCAGCTGGCTGCAGCAGTGGCTGGACTGGGCCAG 2700  
 Qy 2701 CCAGACGCTGGCCTCTTCACAGTGTCTGGAGGCTGAGTGCTGAGGCCGGCCAG 2752  
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
 Db 2701 CCAGACGCTGGCCTCTTCACAGTGTCTGGAGGCTGAGTGCTGAGGCCGGCCAG 2752

RESULT 2

US-10-624-932-1

; Sequence 1, Application US/10624932  
 ; Publication No. US20040096877A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Taupier, Raymond  
 ; APPLICANT: Padigar, Muralidhara  
 ; APPLICANT: Rastelli, Luca  
 ; APPLICANT: Spaderna, Steven  
 ; APPLICANT: Shimkets, Richard  
 ; APPLICANT: Zerhusen, Bryan  
 ; APPLICANT: Spytek, Kimberly  
 ; APPLICANT: Shenoy, Suresh  
 ; APPLICANT: Li, Li  
 ; APPLICANT: Gusev, Vladimir  
 ; APPLICANT: Grosse, William  
 ; APPLICANT: Alsobrook, John  
 ; APPLICANT: Lepley, Denise  
 ; APPLICANT: Burgess, Catherine  
 ; APPLICANT: Gerlach, Valerie  
 ; APPLICANT: Ellerman, Karen  
 ; APPLICANT: MacDougall, John  
 ; APPLICANT: Stone, David  
 ; APPLICANT: Smithson, Glennda  
 ; TITLE OF INVENTION: Novel Proteins and Nucleic Acids Encoding Same  
 ; FILE REFERENCE: 21402-074 US  
 ; CURRENT APPLICATION NUMBER: US/10/624,932  
 ; CURRENT FILING DATE: 2003-07-21  
 ; PRIOR APPLICATION NUMBER: 09/918,779  
 ; PRIOR FILING DATE: 2001-07-03  
 ; PRIOR APPLICATION NUMBER: 60/221,409  
 ; PRIOR FILING DATE: 2000-07-28  
 ; PRIOR APPLICATION NUMBER: 60/222,840  
 ; PRIOR FILING DATE: 2000-08-04  
 ; PRIOR APPLICATION NUMBER: 60/223,752  
 ; PRIOR FILING DATE: 2000-08-08  
 ; PRIOR APPLICATION NUMBER: 60/223,762  
 ; PRIOR FILING DATE: 2000-08-08

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; PRIOR APPLICATION NUMBER: 60/223,770
; PRIOR FILING DATE: 2000-08-08
; PRIOR APPLICATION NUMBER: 60/223,769
; PRIOR FILING DATE: 2000-08-08
; PRIOR APPLICATION NUMBER: 60/225,146
; PRIOR FILING DATE: 2000-08-14
; PRIOR APPLICATION NUMBER: 60/225,392
; PRIOR FILING DATE: 2000-08-15
; PRIOR APPLICATION NUMBER: 60/225,470
; PRIOR FILING DATE: 2000-08-15
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 61
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 2752
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-624-932-1
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Query Match          100.0%; Score 2752; DB 17; Length 2752;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2752; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Qy      1 CCGCGGGGCCCCGCGCCCGGCCCGCCCGCCTGCCCGCCCGCGGCCATGGCCGTCCGGCCC 60
        |||
Db      1 CCGCGGGGCCCCGCGCCCGGCCCGCCCGCCTGCCCGCCCGCGGCCATGGCCGTCCGGCCC 60

Qy     61 GGCCTGTGGCCAGCGCTCCTGGGCATAGTCCTCGCCGCTTGGCTCCGCGGCTCGGGTGCC 120
        |||
Db     61 GGCCTGTGGCCAGCGCTCCTGGGCATAGTCCTCGCCGCTTGGCTCCGCGGCTCGGGTGCC 120

Qy    121 CAGCAGAGTGCCACCGTGGCCAACCCAGTGCCTGGTGCCAACCCGGACCTGCTTCCCCAC 180
        |||
Db    121 CAGCAGAGTGCCACCGTGGCCAACCCAGTGCCTGGTGCCAACCCGGACCTGCTTCCCCAC 180

Qy    181 TTCCTGGTGGAGCCCGAGGATGTGTACATCGTCAAGAACAAGCCAGTGCTGCTTGTGTGC 240
        |||
Db    181 TTCCTGGTGGAGCCCGAGGATGTGTACATCGTCAAGAACAAGCCAGTGCTGCTTGTGTGC 240

Qy    241 AAGGCCGTGCCCGCCACGCAGATCTTCTTCAAGTGCAACGGGGAGTGGGTGCGCCAGGTG 300
        |||
Db    241 AAGGCCGTGCCCGCCACGCAGATCTTCTTCAAGTGCAACGGGGAGTGGGTGCGCCAGGTG 300

Qy    301 GACCACGTGATCGAGCGCAGCACAGACGGGAGCAGTGGGCTGCCCACCATGGAGGTCCGC 360
        |||
Db    301 GACCACGTGATCGAGCGCAGCACAGACGGGAGCAGTGGGCTGCCCACCATGGAGGTCCGC 360

Qy    361 ATTAATGTCTCAAGGCAGCAGGTCGAGAAGGTGTTTCGGGCTGGAGGAATACTGGTGCCAG 420
        |||
Db    361 ATTAATGTCTCAAGGCAGCAGGTCGAGAAGGTGTTTCGGGCTGGAGGAATACTGGTGCCAG 420

Qy    421 TCGGTGGCATGGAGCTCCTCGGGCACCACCAAGAGTCAGAAGGCCTACATCCGCATAGCC 480
        |||
Db    421 TCGGTGGCATGGAGCTCCTCGGGCACCACCAAGAGTCAGAAGGCCTACATCCGCATAGCC 480

Qy    481 AGATTGCGCAAGAACTTCGAGCAGGAGCCGCTGGCCAAGGAGGTGTCCCTGGAGCAGGGC 540
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Db	481	AGATTGCGCAAGAACTTCGAGCAGGAGCCGCTGGCCAAGGAGGTGTCCCTGGAGCAGGGC	540
Qy	541	ATCGTGCTGCCCTGCCGTCCACCGGAGGGCATCCCTCCAGCCGAGGTGGAGTGGCTCCGG	600
Db	541	ATCGTGCTGCCCTGCCGTCCACCGGAGGGCATCCCTCCAGCCGAGGTGGAGTGGCTCCGG	600
Qy	601	AACGAGGACCTGGTGGACCCGTCCCTGGACCCCAATGTATACATCACGCGGGAGCACAGC	660
Db	601	AACGAGGACCTGGTGGACCCGTCCCTGGACCCCAATGTATACATCACGCGGGAGCACAGC	660
Qy	661	CTGGTGGTGCACAGGCCCGCCTTGCTGACACGGCCAACTACACCTGCGTGGCCAAGAAC	720
Db	661	CTGGTGGTGCACAGGCCCGCCTTGCTGACACGGCCAACTACACCTGCGTGGCCAAGAAC	720
Qy	721	ATCGTGGCACGTGCGCGCAGCGCCTCCGCTGCTGTATCGTCTACGTGAACGGTGGGTGG	780
Db	721	ATCGTGGCACGTGCGCGCAGCGCCTCCGCTGCTGTATCGTCTACGTGAACGGTGGGTGG	780
Qy	781	TCGACGTGGACCGAGTGGTCCGTCTGCAGCGCCAGCTGTGGGCGCGGCTGGCAGAAACGG	840
Db	781	TCGACGTGGACCGAGTGGTCCGTCTGCAGCGCCAGCTGTGGGCGCGGCTGGCAGAAACGG	840
Qy	841	AGCCGGAGCTGCACCAACCCGGCGCCTCTCAACGGGGGCGCTTTCTGTGAGGGGCAGAAT	900
Db	841	AGCCGGAGCTGCACCAACCCGGCGCCTCTCAACGGGGGCGCTTTCTGTGAGGGGCAGAAT	900
Qy	901	GTCCAGAAAACAGCCTGCGCCACCCTGTGCCCAGTAGACGGCAGCTGGAGCCCGTGGAGC	960
Db	901	GTCCAGAAAACAGCCTGCGCCACCCTGTGCCCAGTAGACGGCAGCTGGAGCCCGTGGAGC	960
Qy	961	AAGTGGTCGGCCTGTGGGCTGGACTGCACCCACTGGCGGAGCCGTGAGTGCTCTGACCCA	1020
Db	961	AAGTGGTCGGCCTGTGGGCTGGACTGCACCCACTGGCGGAGCCGTGAGTGCTCTGACCCA	1020
Qy	1021	GCACCCCGCAACGGAGGGGAGGAGTGCCAGGGCACTGACCTGGACACCCGCAACTGTACC	1080
Db	1021	GCACCCCGCAACGGAGGGGAGGAGTGCCAGGGCACTGACCTGGACACCCGCAACTGTACC	1080
Qy	1081	AGTGACCTCTGTGTACACAGTGCTTCTGGCCCTGAGGACGTGGCCCTCTATGTGGGCCTC	1140
Db	1081	AGTGACCTCTGTGTACACAGTGCTTCTGGCCCTGAGGACGTGGCCCTCTATGTGGGCCTC	1140
Qy	1141	ATCGCCGTGGCCGTCTGCCTGGTCTGCTGCTGCTTGTCTCATCCTCGTTTATTGCCGG	1200
Db	1141	ATCGCCGTGGCCGTCTGCCTGGTCTGCTGCTGCTTGTCTCATCCTCGTTTATTGCCGG	1200
Qy	1201	AAGAAGGAGGGGCTGGACTCAGATGTGGCTGACTCGTCCATTCTCACCTCAGGCTTCCAG	1260
Db	1201	AAGAAGGAGGGGCTGGACTCAGATGTGGCTGACTCGTCCATTCTCACCTCAGGCTTCCAG	1260
Qy	1261	CCCGTCAGCATCAAGCCCAGCAAAGCAGACAACCCCCATCTGCTCACCATCCAGCCGGAC	1320
Db	1261	CCCGTCAGCATCAAGCCCAGCAAAGCAGACAACCCCCATCTGCTCACCATCCAGCCGGAC	1320
Qy	1321	CTCAGCACCACCACCACCACCTACCAGGGCAGTCTCTGTCCCCGGCAGGATGGGCCCAGC	1380
Db	1321	CTCAGCACCACCACCACCACCTACCAGGGCAGTCTCTGTCCCCGGCAGGATGGGCCCAGC	1380

Qy	1381	CCCAAGTTCCAGCTCACCAATGGGCACCTGCTCAGCCCCCTGGGTGGCGGCCGCCACACA	1440
Db	1381	CCCAAGTTCCAGCTCACCAATGGGCACCTGCTCAGCCCCCTGGGTGGCGGCCGCCACACA	1440
Qy	1441	CTGCACCACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTCTCCCGCCTCTCCACCCAG	1500
Db	1441	CTGCACCACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTCTCCCGCCTCTCCACCCAG	1500
Qy	1501	AACTACTTCCGCTCCCTGCCCCGAGGCACCAGCAACATGACCTATGGGACCTTCAACTTC	1560
Db	1501	AACTACTTCCGCTCCCTGCCCCGAGGCACCAGCAACATGACCTATGGGACCTTCAACTTC	1560
Qy	1561	CTCGGGGGCCGGCTGATGATCCCTAATACAGGTATCAGCCTCCTCATCCCCCAGATGCC	1620
Db	1561	CTCGGGGGCCGGCTGATGATCCCTAATACAGGTATCAGCCTCCTCATCCCCCAGATGCC	1620
Qy	1621	ATACCCCGAGGGAAGATCTATGAGATCTACCTCACGCTGCACAAGCCGGAAGACGTGAGG	1680
Db	1621	ATACCCCGAGGGAAGATCTATGAGATCTACCTCACGCTGCACAAGCCGGAAGACGTGAGG	1680
Qy	1681	TTGCCCCCTAGCTGGCTGTCAGACCCTGCTGAGTCCCATCGTTAGCTGTGGACCCCCCTGGC	1740
Db	1681	TTGCCCCCTAGCTGGCTGTCAGACCCTGCTGAGTCCCATCGTTAGCTGTGGACCCCCCTGGC	1740
Qy	1741	GTCCTGCTCACCCGGCCAGTCATCCTGGCTATGGACCACTGTGGGGAGCCCAGCCCTGAC	1800
Db	1741	GTCCTGCTCACCCGGCCAGTCATCCTGGCTATGGACCACTGTGGGGAGCCCAGCCCTGAC	1800
Qy	1801	AGCTGGAGCCTGCGCCTCAAAAAGCAGTCGTGCGAGGGCAGCTGGGAGGATGTGCTGCAC	1860
Db	1801	AGCTGGAGCCTGCGCCTCAAAAAGCAGTCGTGCGAGGGCAGCTGGGAGGATGTGCTGCAC	1860
Qy	1861	CTGGGCGAGGAGGCGCCCTCCACCTCTACTACTGCCAGCTGGAGGCCAGTGCCTGCTAC	1920
Db	1861	CTGGGCGAGGAGGCGCCCTCCACCTCTACTACTGCCAGCTGGAGGCCAGTGCCTGCTAC	1920
Qy	1921	GTCTTCACCGAGCAGCTGGGCGCCTTTGCCCTGGTGGGAGAGGCCCTCAGCGTGGCTGCC	1980
Db	1921	GTCTTCACCGAGCAGCTGGGCGCCTTTGCCCTGGTGGGAGAGGCCCTCAGCGTGGCTGCC	1980
Qy	1981	GCCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGGTGGCCTGCACCTCCCTCGAGTACAAC	2040
Db	1981	GCCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGGTGGCCTGCACCTCCCTCGAGTACAAC	2040
Qy	2041	ATCCGGGTCTACTGCCTGCATGACACCCACGATGCACTCAAGGAGGTGGTGCAGCTGGAG	2100
Db	2041	ATCCGGGTCTACTGCCTGCATGACACCCACGATGCACTCAAGGAGGTGGTGCAGCTGGAG	2100
Qy	2101	AAGCAGCTGGGGGGACAGCTGATCCAGGAGCCACGGGTCCTGCACTTCAAGGACAGTTAC	2160
Db	2101	AAGCAGCTGGGGGGACAGCTGATCCAGGAGCCACGGGTCCTGCACTTCAAGGACAGTTAC	2160
Qy	2161	CACAACCTGCGCCTATCCATCCACGATGTGCCAGCTCCCTGTGGAAGAGTAAGCTCCTT	2220
Db	2161	CACAACCTGCGCCTATCCATCCACGATGTGCCAGCTCCCTGTGGAAGAGTAAGCTCCTT	2220

Qy	2221	GTCAGCTACCAGGAGATCCCCTTTTATCACATCTGGAATGGCACGCAGCGGTACTTGCAC	2280
Db	2221	GTCAGCTACCAGGAGATCCCCTTTTATCACATCTGGAATGGCACGCAGCGGTACTTGCAC	2280
Qy	2281	TGCACCTTCACCCTGGAGCGTGTGAGCCCCAGCACTAGTGACCTGGCCTGCAAGCTGTGG	2340
Db	2281	TGCACCTTCACCCTGGAGCGTGTGAGCCCCAGCACTAGTGACCTGGCCTGCAAGCTGTGG	2340
Qy	2341	GTGTGGCAGGTGGAGGGCGACGGGCAGAGCTTCAGCATCAACTTCAACATCACCAAGGAC	2400
Db	2341	GTGTGGCAGGTGGAGGGCGACGGGCAGAGCTTCAGCATCAACTTCAACATCACCAAGGAC	2400
Qy	2401	ACAAGGTTTGCTGAGCTGCTGGCTCTGGAGAGTGAAGCGGGGTCCCAGCCCTGGTGGGC	2460
Db	2401	ACAAGGTTTGCTGAGCTGCTGGCTCTGGAGAGTGAAGCGGGGTCCCAGCCCTGGTGGGC	2460
Qy	2461	CCCAGTGCCTTCAAGATCCCCTTCCTCATTCGGCAGAAGATAATTTCCAGCCTGGACCCA	2520
Db	2461	CCCAGTGCCTTCAAGATCCCCTTCCTCATTCGGCAGAAGATAATTTCCAGCCTGGACCCA	2520
Qy	2521	CCCTGTAGGCGGGGTGCCGACTGGCGGACTCTGGCCCAGAACTCCACCTGGACAGCCAT	2580
Db	2521	CCCTGTAGGCGGGGTGCCGACTGGCGGACTCTGGCCCAGAACTCCACCTGGACAGCCAT	2580
Qy	2581	CTCAGCTTCTTTGCCTCCAAGCCCAGCCCCACAGCCATGATCCTCAACCTGTGGGAGGCG	2640
Db	2581	CTCAGCTTCTTTGCCTCCAAGCCCAGCCCCACAGCCATGATCCTCAACCTGTGGGAGGCG	2640
Qy	2641	CGGCACCTCCCCAACGGCAACCTCAGCCAGCTGGCTGCAGCAGTGGCTGGACTGGGCCAG	2700
Db	2641	CGGCACCTCCCCAACGGCAACCTCAGCCAGCTGGCTGCAGCAGTGGCTGGACTGGGCCAG	2700
Qy	2701	CCAGACGCTGGCCTCTTCACAGTGTGCGAGGCTGAGTGCTGAGGCCGGCCAG	2752
Db	2701	CCAGACGCTGGCCTCTTCACAGTGTGCGAGGCTGAGTGCTGAGGCCGGCCAG	2752

### RESULT 3

US-09-970-944-1

; Sequence 1, Application US/09970944

; Publication No. US20030204052A1

; GENERAL INFORMATION:

; APPLICANT: Herrman, John L

; APPLICANT: Rastelli, Luca

; APPLICANT: Shimkets, Richard A

; TITLE OF INVENTION: No. US20030204052A1el Proteins and Nucleic Acids Encoding Same and

; TITLE OF INVENTION: Antibodies Directed Against these Proteins

; FILE REFERENCE: 21402-138

; CURRENT APPLICATION NUMBER: US/09/970,944

; CURRENT FILING DATE: 2002-05-02

; PRIOR APPLICATION NUMBER: 60/237,862

; PRIOR FILING DATE: 2000-10-04

; NUMBER OF SEQ ID NOS: 62

; SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO 1

; LENGTH: 2881



; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-970-944-1

Query Match 97.3%; Score 2676.4; DB 10; Length 2881;  
Best Local Similarity 98.9%; Pred. No. 0;  
Matches 2728; Conservative 0; Mismatches 21; Indels 9; Gaps 3;

Qy	1	CCGCGGGGCCCCGCGCCCGGCCCGCCCGCCTGCCCCGCCCGGGCCATGGCCGTCCGGCCC	60
Db	42	CCGCGGGGCCCCGCGCCCGGCCCGCCCGCCTGCCCCGCCCGGGCCATGGCCGTCCGGCCC	101
Qy	61	GGCCTGTGGCCAGCGCTCCTGGGCATAGTCCTCGCCGCTTGGCTCCGCGGCTCGGGTGCC	120
Db	102	GGCCTGTGGCCAGCGCTCCTGGGCATAGTCCTCGCCGCTTGGCTCCGCGGCTCGGGTGCC	161
Qy	121	CAGCAGAGTGCCACCGTGGCCAACCCAGTGCCTGGTGCCAACCCGGACCTGCTTCCCCAC	180
Db	162	CAGCAGAGTGCCACCGTGGCCAACCCAGTGCCTGGTGCCAACCCGGACCTGCTTCCCCAC	221
Qy	181	TTCCTGGTGGAGCCCGAGGATGTGTACATCGTCAAGAACAAGCCAGTGCTGCTTGTGTGC	240
Db	222	TTCCTGGTGGAGCCCGAGGATGTGTACATCGTCAAGAACAAGCCAGTGCTGCTTGTGTGC	281
Qy	241	AAGGCCGTGCCCGCCACGCAGATCTTCTTCAAGTGCAACGGGGAGTGGGTGCGCCAGGTG	300
Db	282	AAGGCCGTGCCCGCCACGCAGATCTTCTTCAAGTGCAACGGGGAGTGGGTGCGCCAGGTG	341
Qy	301	GACCACGTGATCGAGCGCAGCACAGACGGGAGCAGTGGGCTGCCCACCATGGAGGTCCGC	360
Db	342	GACCACGTGATCGAGCGCAGCACAGACGGGAGCAGTGGTGGAGCCGACCATGGAGGTCCGC	401
Qy	361	ATTAATGTCTCAAGGCAGCAGGTGAGAAAGGTGTTGCGGCTGGAGGAATACTGGTGCCAG	420
Db	402	ATTAATGTCTCAAGGCAGCAGGTGAGAAAGGTGTTGCGGCTGGAGGAATACTGGTGCCAG	461
Qy	421	TGCGTGGCATGGAGCTCCTCGGGCACCACCAAGAGTCAGAAGGCCTACATCCGCATAGCC	480
Db	462	TGCGTGGCATGGAGCTCCTCGGGCACCACCAAGAGTCAGAAGGCCTACATCCGCATAGCC	521
Qy	481	AGATTGCGCAAGAACTTCGAGCAGGAGCCGCTGGCCAAGGAGGTGTCCCTGGAGCAGGGC	540
Db	522	AGATTGCGCAAGAACTTCGAGCAGGAGCCGCTGGCCAAGGAGGTGTCCCTGGAGCAGGGC	581
Qy	541	ATCGTGCTGCCCTGCCGTCCACCGGAGGGCATCCCTCCAGCCGAGGTGGAGTGGCTCCGG	600
Db	582	ATCGTGCTGCCCTGCCGTCCACCGGAGGGCATCCCTCCAGCCGAGGTGGAGTGGCTCCGG	641
Qy	601	AACGAGGACCTGGTGGACCCGTCCCTGGACCCCAATGTATACATCACGCGGGAGCACAGC	660
Db	642	AACGAGGACCTGGTGGACCCGTCCCTGGACCCCAATGTATACATCACGCGGGAGCACAGC	701
Qy	661	CTGGTGGTGCACAGGCCCGCCTTGCTGACACGGCCAACTACACCTGCGTGGCCAAGAAC	720
Db	702	CTGGTGGTGCACAGGCCCGCCTTGCTGACACGGCCAACTACACCTGCGTGGCCAAGAAC	761
Qy	721	ATCGTGGCACGTGCGCGCAGCGCCTCCGCTGCTGTCTACGTGAACGGTGGGTGG	780

Db	762	 ATCGTGGCACGTGCGCCGAGCGCCTCCGCTGCTGTTCATCGTCTACGTGAACGGTGGGTGG	821
Qy	781	TCGACGTGGACCGAGTGGTCCGTCTGCAGCGCCAGCTGTGGGCGCGGCTGGCAGAAACGG	840
Db	822	 TCGACGTGGACCGAGTGGTCCGTCTGCAGCGCCAGCTGTGGGCGCGGCTGGCAGAAACGG	881
Qy	841	AGCCGGAGCTGCACCAACCCGGCGCCTCTCAACGGGGGCGCTTTCTGTGAGGGGCAGAAT	900
Db	882	 AGCCGGAGCTGCACCAACCCGGCGCCTCTCAACGGGGGCGCTTTCTGTGAGGGGCAGAAT	941
Qy	901	GTCCAGAA---AACAGCCTGCGCCACCCTGTGCCAGTAGACGGCAGCTGGAGCCCGTGG	957
Db	942	 GTCCATGACCGCACCGTCTCCTCTCTGCTTGTCTCTGTGGACGGCAGCTGGAGCCCGTGG	1001
Qy	958	AGCAAGTGGTCGGCCTGTGGGCTGGACTGCACCCACTGGCGGAGCCGTGAGTGCTCTGAC	1017
Db	1002	 AGCAAGTGGTCGGCCTGTGGGCTGGACTGCACCCACTGGCGGAGCCGTGAGTGCTCTGAC	1061
Qy	1018	CCAGCACCCCGCAACGGAGGGGAGGAGTGCCAGGGCACTGACCTGGACACCCGCAACTGT	1077
Db	1062	 CCAGCACCCCGCAACGGAGGGGAGGAGTGCCAGGGCACTGACCTGGACACCCGCAACTGT	1121
Qy	1078	ACCAGTGACCTCTGTGTACACAGTGCTTCTGGCCCTGAGGACGTGGCCCTCTATGTGGGC	1137
Db	1122	 ACCAGTGACCTCTGTGTACACAGTGCTTCTGGCCCTGAGGACGTGGCCCTCTATGTGGGC	1181
Qy	1138	CTCATCGCCGTGGCCGTCTGCCTGGTCCTGCTGCTGCTTGTCTCATCCTCGTTTATTGC	1197
Db	1182	 CTCATCGCCGTGGCCGTCTGCCTGGTCCTGCTGCTGCTTGTCTCATCCTCGTTTATTGC	1241
Qy	1198	CGGAAGAAGGAGGGGCTGGACTCAGATGTGGCTGACTCGTCCATTCTCACCTCAGGCTTC	1257
Db	1242	 CGGAAGAAGGAGGGGCTGGACTCAGATGTGGCTGACTCGTCCATTCTCACCTCAGGCTTC	1301
Qy	1258	CAGCCCGTCAGCATCAAGCCCAGCAAAGCAGACAACCCCCATCTGCTCACCATCCAGCCG	1317
Db	1302	 CAGCCCGTCAGCATCAAGCCCAGCAAAGCAGACAACCCCCATCTGCTCACCATCCAGCCG	1361
Qy	1318	GACCTCAGCACCACCACCACCTACCAGGGCAGTCTCTGTCCCCGGCAGGATGGGCCC	1377
Db	1362	 GACCTCAG---CACCACCACCACCTACCAGGGCAGTCTCTGTCCCCGGCAGGATGGGCCC	1418
Qy	1378	AGCCCCAAGTTCCAGCTCACCAATGGGCACCTGCTCAGCCCCCTGGGTGGCGGCCGCCAC	1437
Db	1419	 AGCCCCAAGTTCCAGCTCACCAATGGGCACCTGCTCAGCCCCCTGGGTGGCGGCCGCCAC	1478
Qy	1438	ACACTGCACCACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTCTCCCGCCTCTCCACC	1497
Db	1479	 ACACTGCACCACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTCTCCCGCCTCTCCACC	1538
Qy	1498	CAGAACTACTTCCGCTCCCTGCCCCGAGGCACCAGCAACATGACCTATGGGACCTTCAAC	1557
Db	1539	 CAGAACTACTTCCGCTCCCTGCCCCGAGGCACCAGCAACATGACCTATGGGACCTTCAAC	1598
Qy	1558	TTCCTCGGGGGCCGGCTGATGATCCCTAATACAGGTATCAGCCTCCTCATCCCCCAGAT	1617

Db	1599	TTCCTCGGGGGCCGGCTGATGATCCCTAATACAGGTATCAGCCTCCTCATCCCCCAGAT	1658
Qy	1618	GCCATACCCCGAGGGAAGATCTATGAGATCTACCTCACGCTGCACAAGCCGGAAGACGTG	1677
Db	1659	GCCATACCCCGAGGGAAGATCTATGAGATCTACCTCACGCTGCACAAGCCGGAAGACGTG	1718
Qy	1678	AGGTTGCCCCTAGCTGGCTGTCAGACCCTGCTGAGTCCCATCGTTAGCTGTGGACCCCCT	1737
Db	1719	AGGTTGCCCCTAGCTGGCTGTCAGACCCTGCTGAGTCCCATCGTTAGCTGTGGACCCCCT	1778
Qy	1738	GGCGTCCTGCTCACCCGGCCAGTCATCCTGGCTATGGACCACTGTGGGGAGCCCAGCCCT	1797
Db	1779	GGCGTCCTGCTCACCCGGCCAGTCATCCTGGCTATGGACCACTGTGGGGAGCCCAGCCCT	1838
Qy	1798	GACAGCTGGAGCCTGCGCCTCAAAAAGCAGTCGTGCGAGGGCAGCTGGG---AGGATGTG	1854
Db	1839	GACAGCTGGAGCCTGCGCCTCAAAAAGCAGTCGTGCGAGGGCAGCTGGGAGCAGGATGTG	1898
Qy	1855	CTGCACCTGGGCGAGGAGGCGCCCTCCACCTCTACTACTGCCAGCTGGAGGCCAGTGCC	1914
Db	1899	CTGCACCTGGGCGAGGAGGCGCCCTCCACCTCTACTACTGCCAGCTGGAGGCCAGTGCC	1958
Qy	1915	TGCTACGTCTTCACCGAGCAGCTGGGCCGCTTTGCCCTGGTGGGAGAGGCCCTCAGCGTG	1974
Db	1959	TGCTACGTCTTCACCGAGCAGCTGGGCCGCTTTGCCCTGGTGGGAGAGGCCCTCAGCGTG	2018
Qy	1975	GCTGCCGCCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGGTGGCCTGCACCTCCCTCGAG	2034
Db	2019	GCTGCCGCCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGGTGGCCTGCACCTCCCTCGAG	2078
Qy	2035	TACAACATCCGGGTCTACTGCCTGCATGACACCCACGATGCACTCAAGGAGGTGGTGCAG	2094
Db	2079	TACAACATCCGGGTCTACTGCCTGCATGACACCCACGATGCACTCAAGGAGGTGGTGCAG	2138
Qy	2095	CTGGAGAAGCAGCTGGGGGGACAGCTGATCCAGGAGCCACGGGTCCTGCACTTCAAGGAC	2154
Db	2139	CTGGAGAAGCAGCTGGGGGGACAGCTGATCCAGGAGCCACGGGTCCTGCACTTCAAGGAC	2198
Qy	2155	AGTTACCACAACCTGCGCCTATCCATCCACGATGTGCCCAGCTCCCTGTGGAAGAGTAAG	2214
Db	2199	AGTTACCACAACCTGCGCCTATCCATCCACGATGTGCCCAGCTCCCTGTGGAAGAGTAAG	2258
Qy	2215	CTCCTTGTGTCAGCTACCAGGAGATCCCCTTTTATCACATCTGGAATGGCACGCAGCGGTAC	2274
Db	2259	CTCCTTGTGTCAGCTACCAGGAGATCCCCTTTTATCACATCTGGAATGGCACGCAGCGGTAC	2318
Qy	2275	TTGCACTGCACCTTACCCTGGAGCGTGTGAGCCCCAGCACTAGTGACCTGGCCTGCAAG	2334
Db	2319	TTGCACTGCACCTTACCCTGGAGCGTGTGAGCCCCAGCACTAGTGACCTGGCCTGCAAG	2378
Qy	2335	CTGTGGGTGTGGCAGGTGGAGGGCGACGGGCAGAGCTTCAGCATCAACTTCAACATCACC	2394
Db	2379	CTGTGGGTGTGGCAGGTGGAGGGCGACGGGCAGAGCTTCAGCATCAACTTCAACATCACC	2438
Qy	2395	AAGGACACAAGGTTTGCTGAGCTGCTGGCTCTGGAGAGTGAAGCGGGGGTCCCAGCCCTG	2454
Db	2439	AAGGACACAAGGTTTGCTGAGCTGCTGGCTCTGGAGAGTGAAGCGGGGGTCCCAGCCCTG	2498

Qy 2455 GTGGGCCCCAGTGCCTTCAAGATCCCCTTCCTCATTTCGGCAGAAGATAATTTCCAGCCTG 2514  
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 Db 2499 GTGGGCCCCAGTGCCTTCAAGATCCCCTTCCTCATTTCGGCAGAAGATAATTTCCAGCCTG 2558  
 Qy 2515 GACCCACCCTGTAGGCGGGGTGCCGACTGGCGGACTCTGGCCCAGAACTCCACCTGGAC 2574  
 |||  
 Db 2559 GACCCACCCTGTAGGCGGGGTGCCGACTGGCGGACTCTGGCCCAGAACTCCACCTGGAC 2618  
 Qy 2575 AGCCATCTCAGCTTCTTTGCCTCCAAGCCCAGCCCCACAGCCATGATCCTCAACCTGTGG 2634  
 |||  
 Db 2619 AGCCATCTCAGCTTCTTTGCCTCCAAGCCCAGCCCCACAGCCATGATCCTCAACCTGTGG 2678  
 Qy 2635 GAGGCGCGGCACTTCCCCAACGGCAACCTCAGCCAGCTGGCTGCAGCAGTGGCTGGACTG 2694  
 |||  
 Db 2679 GAGGCGCGGCACTTCCCCAACGGCAACCTCAGCCAGCTGGCTGCAGCAGTGGCTGGACTG 2738  
 Qy 2695 GGCCAGCCAGACGCTGGCCTCTTACAGTGTCTGGAGGCTGAGTGCTGAGGCCGGCCAG 2752  
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 Db 2739 GGCCAGCCAGACGCTGGCCTCTTACAGTGTCTGGAGGCTGAGTGCTGAGGCCGGCCAG 2796

RESULT 4

US-10-643-795A-77

; Sequence 77, Application US/10643795A

; Publication No. US20040241703A1

; GENERAL INFORMATION:

; APPLICANT: FREDERIC J. DESAUVAGE

; APPLICANT: GRETCHEN FRANTZ

; APPLICANT: KENNETH J. HILLAN

; APPLICANT: PAUL POLAKIS

; APPLICANT: ANDREW POLSON

; APPLICANT: VICTORIA SMITH

; APPLICANT: SUSAN D. SPENCER

; APPLICANT: THOMAS D. WU

; APPLICANT: ZEMIN ZHANG

; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE DIAGNOSIS AND

; TITLE OF INVENTION: TREATMENT OF TUMOR

; FILE REFERENCE: P5026R1-US

; CURRENT APPLICATION NUMBER: US/10/643,795A

; CURRENT FILING DATE: 2003-08-19

; PRIOR APPLICATION NUMBER: US 60/404,809

; PRIOR FILING DATE: 2002-08-19

; PRIOR APPLICATION NUMBER: US 60/405,645

; PRIOR FILING DATE: 2002-08-21

; PRIOR APPLICATION NUMBER: US 60/413,192

; PRIOR FILING DATE: 2002-09-23

; PRIOR APPLICATION NUMBER: US 60/419,008

; PRIOR FILING DATE: 2002-10-15

; PRIOR APPLICATION NUMBER: US 60/426,847

; PRIOR FILING DATE: 2002-11-15

; PRIOR APPLICATION NUMBER: US 60/484,959

; PRIOR FILING DATE: 2003-07-02

; NUMBER OF SEQ ID NOS: 158

; SEQ ID NO 77

; LENGTH: 3561

; TYPE: DNA

US-10-643-795A-77

Matches 2537; Conservative 0; Mismatches 5; Indels 168; Gaps 1;

— 111 —

Db	721	TACGTG-----	726
Qy	823	CGCGGCTGGCAGAAACGGAGCCGGAGCTGCACCAACCCGGCGCCTCTCAACGGGGGCGCT	882
Db	727	-----	726
Qy	883	TTCTGTGAGGGGCGAGAATGTCCAGAAAACAGCCTGCGCCACCCTGTGCCCAGTAGACGGC	942
Db	727	-----GACGGC	732
Qy	943	AGCTGGAGCCCGTGGAGCAAGTGGTCGGCCTGTGGGCTGGACTGCACCCACTGGCGGAGC	1002
Db	733	AGCTGGAGCCCGTGGAGCAAGTGGTCGGCCTGTGGGCTGGACTGCACCCACTGGCGGAGC	792
Qy	1003	CGTGAGTGCTCTGACCCAGCACCCCGCAACGGAGGGGAGGAGTGCCAGGGCACTGACCTG	1062
Db	793	CGTGAGTGCTCTGACCCAGCACCCCGCAACGGAGGGGAGGAGTGCCAGGGCACTGACCTG	852
Qy	1063	GACACCCGCAACTGTACCAAGTGACCTCTGTGTACACAGTGCTTCTGGCCCTGAGGACGTG	1122
Db	853	GACACCCGCAACTGTACCAAGTGACCTCTGTGTACACAGTGCTTCTGGCCCTGAGGACGTG	912
Qy	1123	GCCCTCTATGTGGGCCTCATCGCCGTGGCCGTCTGCCTGGTCCTGCTGCTGCTTGTCTC	1182
Db	913	GCCCTCTATGTGGGCCTCATCGCCGTGGCCGTCTGCCTGGTCCTGCTGCTGCTTGTCTC	972
Qy	1183	ATCCTCGTTTATTGCCGGAAGAAGGAGGGGCTGGACTCAGATGTGGCTGACTCGTCCATT	1242
Db	973	ATCCTCGTTTATTGCCGGAAGAAGGAGGGGCTGGACTCAGATGTGGCTGACTCGTCCATT	1032
Qy	1243	CTCACCTCAGGCTTCCAGCCCGTCAGCATCAAGCCAGCAAAGCAGACAACCCCATCTG	1302
Db	1033	CTCACCTCAGGCTTCCAGCCCGTCAGCATCAAGCCAGCAAAGCAGACAACCCCATCTG	1092
Qy	1303	CTCACCATCCAGCCGGACCTCAGCACCACCACCACCACCTACCAGGGCAGTCTCTGTCCC	1362
Db	1093	CTCACCATCCAGCCGGACCTCAGCACCACCACCACCACCACCTACCAGGGCAGTCTCTGTCCC	1152
Qy	1363	CGGCAGGATGGGCCCAGCCCCAAGTTCCAGCTCACCAATGGGCACCTGCTCAGCCCCCTG	1422
Db	1153	CGGCAGGATGGGCCCAGCCCCAAGTTCCAGCTCACCAATGGGCACCTGCTCAGCCCCCTG	1212
Qy	1423	GGTGGCGGCCGCCACACACTGCACCACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTC	1482
Db	1213	GGTGGCGGCCGCCACACACTGCACCACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTC	1272
Qy	1483	TCCCGCCTCTCCACCCAGAACTACTTCCGCTCCCTGCCCCGAGGCACCAGCAACATGACC	1542
Db	1273	TCCCGCCTCTCCACCCAGAACTACTTCCGCTCCCTGCCCCGAGGCACCAGCAACATGACC	1332
Qy	1543	TATGGGACCTTCAACTTCCTCGGGGGCCGGCTGATGATCCCTAATACAGGTATCAGCCTC	1602
Db	1333	TATGGGACCTTCAACTTCCTCGGGGGCCGGCTGATGATCCCTAATACAGGAATCAGCCTC	1392
Qy	1603	CTCATCCCCCAGATGCCATACCCCGAGGGAAGATCTATGAGATCTACCTCACGCTGCAC	1662
Db	1393	CTCATCCCCCAGATGCCATACCCCGAGGGAAGATCTATGAGATCTACCTCACGCTGCAC	1452

Qy	1663	AAGCCGGAAGACGTGAGGTTGCCCCTAGCTGGCTGTCAGACCCTGCTGAGTCCCATCGTT	1722
Db	1453	AAGCCGGAAGACGTGAGGTTGCCCCTAGCTGGCTGTCAGACCCTGCTGAGTCCCATCGTT	1512
Qy	1723	AGCTGTGGACCCCCTGGCGTCCTGCTCACCCGGCCAGTCATCCTGGCTATGGACCACTGT	1782
Db	1513	AGCTGTGGACCCCCTGGCGTCCTGCTCACCCGGCCAGTCATCCTGGCTATGGACCACTGT	1572
Qy	1783	GGGGAGCCCAGCCCTGACAGCTGGAGCCTGCGCCTCAAAAAGCAGTCGTGCGAGGGCAGC	1842
Db	1573	GGGGAGCCCAGCCCTGACAGCTGGAGCCTGCGCCTCAAAAAGCAGTCGTGCGAGGGCAGC	1632
Qy	1843	TGGGAGGATGTGCTGCACCTGGGCGAGGAGGCGCCCTCCACCTCTACTACTGCCAGCTG	1902
Db	1633	TGGGAGGATGTGCTGCACCTGGGCGAGGAGGCGCCCTCCACCTCTACTACTGCCAGCTG	1692
Qy	1903	GAGGCCAGTGCCTGCTACGTCTTCACCGAGCAGCTGGGCCGCTTTGCCCTGGTGGGAGAG	1962
Db	1693	GAGGCCAGTGCCTGCTACGTCTTCACCGAGCAGCTGGGCCGCTTTGCCCTGGTGGGAGAG	1752
Qy	1963	GCCCTCAGCGTGGCTGCCGCCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGGTGGCCTGC	2022
Db	1753	GCCCTCAGCGTGGCTGCCGCCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGGTGGCCTGC	1812
Qy	2023	ACCTCCCTCGAGTACAACATCCGGGTCTACTGCCTGCATGACACCCACGATGCACTCAAG	2082
Db	1813	ACCTCCCTCGAGTACAACATCCGGGTCTACTGCCTGCATGACACCCACGATGCACTCAAG	1872
Qy	2083	GAGGTGGTGCAGCTGGAGAAGCAGCTGGGGGGACAGCTGATCCAGGAGCCACGGGTCCTG	2142
Db	1873	GAGGTGGTGCAGCTGGAGAAGCAGCTGGGGGGACAGCTGATCCAGGAGCCACGGGTCCTG	1932
Qy	2143	CACTTCAAGGACAGTTACCACAACCTGCGCCTATCCATCCACGATGTGCCAGCTCCCTG	2202
Db	1933	CACTTCAAGGACAGTTACCACAACCTGCGCCTATCCATCCACGATGTGCCAGCTCCCTG	1992
Qy	2203	TGGAAGAGTAAGCTCCTTGTGCTGAGCTACCAGGAGATCCCCTTTTATCACATCTGGAATGGC	2262
Db	1993	TGGAAGAGTAAGCTCCTTGTGCTGAGCTACCAGGAGATCCCCTTTTATCACATCTGGAATGGC	2052
Qy	2263	ACGCAGCGGTACTTGCACTGCACCTTACCCTGGAGCGTGTGAGCCCCAGCACTAGTGAC	2322
Db	2053	ACGCAGCGGTACTTGCACTGCACCTTACCCTGGAGCGTGTGAGCCCCAGCACTAGTGAC	2112
Qy	2323	CTGGCCTGCAAGCTGTGGGTGTGGCAGGTGGAGGGCGACGGGCAGAGCTTCAAGCATCAAC	2382
Db	2113	CTGGCCTGCAAGCTGTGGGTGTGGCAGGTGGAGGGCGACGGGCAGAGCTTCAAGCATCAAC	2172
Qy	2383	TTCAACATCACCAAGGACACAAGGTTTGTGCTGAGCTGCTGGCTCTGGAGAGTGAAGCGGGG	2442
Db	2173	TTCAACATCACCAAGGACACAAGGTTTGTGCTGAGCTGCTGGCTCTGGAGAGTGAAGCGGGG	2232
Qy	2443	GTCCCAGCCCTGGTGGGCCCCAGTGCCTTCAAGATCCCCTTCTCATTTCGGCAGAAGATA	2502
Db	2233	GTCCCAGCCCTGGTGGGCCCCAGTGCCTTCAAGATCCCCTTCTCATTTCGGCAGAAGATA	2292

Qy 2503 ATTTCCAGCCTGGACCCACCCTGTAGGCGGGGTGCCGACTGGCGGACTCTGGCCCAGAAA 2562  
 |||  
 Db 2293 ATTTCCAGCCTGGACCCACCCTGTAGGCGGGGTGCCGACTGGCGGACTCTGGCCCAGAAA 2352  
 Qy 2563 CTCCACCTGGACAGCCATCTCAGCTTCTTTGCCTCCAAGCCCAGCCCCACAGCCATGATC 2622  
 |||  
 Db 2353 CTCCACCTGGACAGCCATCTCAGCTTCTTTGCCTCCAAGCCCAGCCCCACAGCCATGATC 2412  
 Qy 2623 CTCAACCTGTGGGAGGCGCGGCACTTCCCCAACGGCAACCTCAGCCAGCTGGCTGCAGCA 2682  
 |||  
 Db 2413 CTCAACCTGTGGGAGGCGCGGCACTTCCCCAACGGCAACCTCAGCCAGCTGGCTGCAGCA 2472  
 Qy 2683 GTGGCTGGACTGGGCCAGCCAGACGCTGGCCTCTTCACAGTGTGCGGAGGCTGAGTGCTGA 2742  
 |||  
 Db 2473 GTGGCTGGACTGGGCCAGCCAGACGCTGGCCTCTTCACAGTGTGCGGAGGCTGAGTGCTGA 2532  
 Qy 2743 GGCCGGCCAG 2752  
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 Db 2533 GGCCGGCCAG 2542

# RESULT 5

US-10-311-623-13

; Sequence 13, Application US/10311623  
 ; Publication No. US20040023244A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: INCYTE GENOMICS, INC.; GRIFFIN, Jennifer A.  
 ; APPLICANT: KALLICK, Deborah A.; TRIBOULEY, Catherine M.  
 ; APPLICANT: YUE, Henry; NGUYEN, Dannel B.  
 ; APPLICANT: TANG, Y. Tom; LAL, Preeti G.  
 ; APPLICANT: POLICKY, Jennifer L.; AZIMZAI, Yalda  
 ; APPLICANT: LU, Dyung Aina M.; GRAUL, Richard C.  
 ; APPLICANT: YAO, Monique G.; BURFORD, Neil  
 ; APPLICANT: HAFALIA, April J. A.; BAUGHN, Mariah R.  
 ; APPLICANT: BANDMAN, Olga; ARVIZU, Chandra S.  
 ; APPLICANT: YANG, Junming; XU, Yuming  
 ; APPLICANT: GANDHI, Ameena R.; WARREN, Bridget A.  
 ; APPLICANT: DING, Li; SANJANWALA, Madhusudan M.  
 ; APPLICANT: DUGGAN, Brendan M.; LU, Yan  
 ; TITLE OF INVENTION: RECEPTORS  
 ; FILE REFERENCE: PF-0793 USN  
 ; CURRENT APPLICATION NUMBER: US/10/311,623  
 ; CURRENT FILING DATE: 2002-12-17  
 ; PRIOR APPLICATION NUMBER: US 01/19942  
 ; PRIOR FILING DATE: 2001-06-21  
 ; PRIOR APPLICATION NUMBER: US 60/214,027  
 ; PRIOR FILING DATE: 2000-06-21  
 ; PRIOR APPLICATION NUMBER: US 60/228,045  
 ; PRIOR FILING DATE: 2000-08-25  
 ; PRIOR APPLICATION NUMBER: US 60/255,104  
 ; PRIOR FILING DATE: 2000-12-12  
 ; NUMBER OF SEQ ID NOS: 24  
 ; SOFTWARE: PERL Program  
 ; SEQ ID NO 13  
 ; LENGTH: 3580  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens



; FEATURE:  
; NAME/KEY: misc\_feature  
; OTHER INFORMATION: Incyte ID No. US20040023244A1 6052371CB1  
US-10-311-623-13

Query Match 85.6%; Score 2356; DB 17; Length 3580;  
Best Local Similarity 93.6%; Pred. No. 0;  
Matches 2537; Conservative 0; Mismatches 5; Indels 168; Gaps 1;

Qy	43	GCCATGGCCGTCCGGCCCGGCCTGTGGCCAGCGCTCCTGGGCATAGTCCTCGCCGCTTGG	102
Db	1	GCCATGGCCGTCCGGCCCGGCCTGTGGCCAGCGCTCCTGGGCATAGTCCTCGCCGCTTGG	60
Qy	103	CTCCGCGGCTCGGGTGCCAGCAGAGTGCCACCGTGGCCAACCCAGTGCCTGGTGCCAAC	162
Db	61	CTCCGCGGCTCGGGTGCCAGCAGAGTGCCACCGTGGCCAACCCAGTGCCTGGTGCCAAC	120
Qy	163	CCGGACCTGCTTCCCCACTTCCTGGTGGAGCCCGAGGATGTGTACATCGTCAAGAACAAG	222
Db	121	CCGGACCTGCTTCCCCACTTCCTGGTGGAGCCCGAGGATGTGTACATCGTCAAGAACAAG	180
Qy	223	CCAGTGCTGCTTGTGTGCAAGGCCGTGCCC GCCACGCAGATCTTCTTCAAGTGCAACGGG	282
Db	181	CCAGTGCTGCTTGTGTGCAAGGCCGTGCCC GCCACGCAGATCTTCTTCAAGTGCAACGGG	240
Qy	283	GAGTGGGTGCGCCAGGTGGACCACGTGATCGAGCGCAGCACAGACGGGAGCAGTGGGCTG	342
Db	241	GAGTGGGTGCGCCAGGTGGACCACGTGATCGAGCGCAGCACAGACGGGAGCAGTGGGCTG	300
Qy	343	CCCACCATGGAGGTCCGCATTAATGTCTCAAGGCAGCAGGTCGAGAAGGTGTTCCGGGCTG	402
Db	301	CCCACCATGGAGGTCCGCATTAATGTCTCAAGGCAGCAGGTCGAGAAGGTGTTCCGGGCTG	360
Qy	403	GAGGAATACTGGTGCCAGTGCGTGGCATGGAGCTCCTCGGGCACCACCAAGAGTCAGAAG	462
Db	361	GAGGAATACTGGTGCCAGTGCGTGGCATGGAGCTCCTCGGGCACCACCAAGAGTCAGAAG	420
Qy	463	GCCTACATCCGCATAGCCAGATTGCGCAAGAACTTCGAGCAGGAGCCGCTGGCCAAGGAG	522
Db	421	GCCTACATCCGCATAGCCTATTTGCGCAAGAACTTCGAGCAGGAGCCGCTGGCCAAGGAG	480
Qy	523	GTGTCCCTGGAGCAGGGCATCGTGCTGCCCTGCCGTCCACCGGAGGGCATCCCTCCAGCC	582
Db	481	GTGTCCCTGGAGCAGGGCATCGTGCTGCCCTGCCGTCCACCGGAGGGCATCCCTCCAGCC	540
Qy	583	GAGGTGGAGTGGCTCCGGAACGAGGACCTGGTGGACCCGTCCCTGGACCCCAATGTATAC	642
Db	541	GAGGTGGAGTGGCTCCGGAACGAGGACCTGGTGGACCCGTCCCTGGACCCCAATGTATAC	600
Qy	643	ATCACGCGGGAGCACAGCCTGGTGGTGCGACAGGCCCGCCTTGCTGACACGGCCAACCTAC	702
Db	601	ATCACGCGGGAGCACAGCCTGGTGGTGCGACAGGCCCGCCTTGCTGACACGGCCAACCTAC	660
Qy	703	ACCTGCGTGGCCAAGAACATCGTGGCACGTCGCCGCGAGCGCCTCCGCTGCTGTATCGTC	762
Db	661	ACCTGCGTGGCCAAGAACATCGTGGCACGTCGCCGCGAGCGCCTCCGCTGCTGTATCGTC	720

Qy	763	TACGTGAACGGTGGGTGGTTCGACGTGGACCGAGTGGTCCGTCTGCAGCGCCAGCTGTGGG	822
Db	721	TACGTG-----	726
Qy	823	CGCGGCTGGCAGAAACGGAGCCGGAGCTGCACCAACCCGGCGCCTCTCAACGGGGGCGCT	882
Db	727	-----	726
Qy	883	TTCTGTGAGGGGCAGAATGTCCAGAAAACAGCCTGCGCCACCCTGTGCCCAGTAGACGGC	942
Db	727	-----GACGGC	732
Qy	943	AGCTGGAGCCCGTGGAGCAAGTGGTCGGCCTGTGGGCTGGACTGCACCCACTGGCGGAGC	1002
Db	733	AGCTGGAGCCCGTGGAGCAAGTGGTCGGCCTGTGGGCTGGACTGCACCCACTGGCGGAGC	792
Qy	1003	CGTGAGTGCTCTGACCCAGCACCCCGCAACGGAGGGGAGGAGTGCCAGGGCACTGACCTG	1062
Db	793	CGTGAGTGCTCTGACCCAGCACCCCGCAACGGAGGGGAGGAGTGCCAGGGCACTGACCTG	852
Qy	1063	GACACCCGCAACTGTACCAAGTGACCTCTGTGTACACAGTGCTTCTGGCCCTGAGGACGTG	1122
Db	853	GACACCCGCAACTGTACCAAGTGACCTCTGTGTACACACTGCTTCTGGCCCTGAGGACGTG	912
Qy	1123	GCCCTCTATGTGGGCCTCATCGCCGTGGCCGTCTGCCTGGTCCTGCTGCTGCTTGTCTC	1182
Db	913	GCCCTCTATGTGGGCCTCATCGCCGTGGCCGTCTGCCTGGTCCTGCTGCTGCTTGTCTC	972
Qy	1183	ATCCTCGTTTATTGCCGGAAGAAGGAGGGGCTGGACTCAGATGTGGCTGACTCGTCCATT	1242
Db	973	ATCCTCGTTTATTGCCGGAAGAAGGAGGGGCTGGACTCAGATGTGGCTGACTCGTCCATT	1032
Qy	1243	CTCACCTCAGGCTTCCAGCCCGTCAGCATCAAGCCAGCAAAGCAGACAACCCCCATCTG	1302
Db	1033	CTCACCTCAGGCTTCCAGCCCGTCAGCATCAAGCCAGCAAAGCAGACAACCCCCATCTG	1092
Qy	1303	CTCACCATCCAGCCGGACCTCAGCACCACCACCACCACCTACCAGGGCAGTCTCTGTCCC	1362
Db	1093	CTCACCATCCAGCCGGACCTCAGCACCACCACCACCACCTACCAGGGCAGTCTCTGTCCC	1152
Qy	1363	CGGCAGGATGGGCCCAGCCCCAAGTTCCAGCTACCAATGGGCACCTGCTCAGCCCCCTG	1422
Db	1153	CGGCAGGATGGGCCCAGCCCCAAGTTCCAGCTACCAATGGGCACCTGCTCAGCCCCCTG	1212
Qy	1423	GGTGGCGGCCGCCACACACTGCACCACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTC	1482
Db	1213	GGTGGCGGCCGCCACACACTGCACCACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTC	1272
Qy	1483	TCCCGCCTCTCCACCCAGAACTACTTCCGCTCCCTGCCCCGAGGCACCAGCAACATGACC	1542
Db	1273	TCCCGCCTCTCCACCCAGAACTACTTCCGCTCCCTGCCCCGAGGCACCAGCAACATGACC	1332
Qy	1543	TATGGGACCTTCAACTTCCTCGGGGGCCGGCTGATGATCCCTAATACAGGTATCAGCCTC	1602
Db	1333	TATGGGACCTTCAACTTCCTCGGGGGCCGGCTGATGATCCCTAATACAGGAATCAGCCTC	1392
Qy	1603	CTCATCCCCCAGATGCCATACCCCGAGGGAAGATCTATGAGATCTACCTCACGCTGCAC	1662

Db	1393	CTCATCCCCCAGATGCCATACCCCGAGGGAAGATCTATGAGATCTACCTCACGCTGCAC	1452
Qy	1663	AAGCCGGAAGACGTGAGGTTGCCCCCTAGCTGGCTGTCAGACCCTGCTGAGTCCCATCGTT	1722
Db	1453	AAGCCGGAAGACGTGAGGTTGCCCCCTAGCTGGCTGTCAGACCCTGCTGAGTCCCATCGTT	1512
Qy	1723	AGCTGTGGACCCCCTGGCGTCCTGCTCACCCGGCCAGTCATCCTGGCTATGGACCACTGT	1782
Db	1513	AGCTGTGGACCCCCTGGCGTCCTGCTCACCCGGCCAGTCATCCTGGCTATGGACCACTGT	1572
Qy	1783	GGGGAGCCCAGCCCTGACAGCTGGAGCCTGCGCCTCAAAAAGCAGTCGTGCGAGGGCAGC	1842
Db	1573	GGGGAGCCCAGCCCTGACAGCTGGAGCCTGCGCCTCAAAAAGCAGTCGTGCGAGGGCAGC	1632
Qy	1843	TGGGAGGATGTGCTGCACCTGGGCGAGGAGGCGCCCTCCACCTCTACTACTGCCAGCTG	1902
Db	1633	TGGGAGGATGTGCTGCACCTGGGCGAGGAGGCGCCCTCCACCTCTACTACTGCCAGCTG	1692
Qy	1903	GAGGCCAGTGCCTGCTACGTCTTCACCGAGCAGCTGGGCCGCTTTGCCCTGGTGGGAGAG	1962
Db	1693	GAGGCCAGTGCCTGCTACGTCTTCACCGAGCAGCTGGGCCGCTTTGCCCTGGTGGGAGAG	1752
Qy	1963	GCCCTCAGCGTGGCTGCCGCCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGGTGGCCTGC	2022
Db	1753	GCCCTCAGCGTGGCTGCCGCCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGGTGGCCTGC	1812
Qy	2023	ACCTCCCTCGAGTACAACATCCGGGTCTACTGCCTGCATGACACCCACGATGCACTCAAG	2082
Db	1813	ACCTCCCTCGAGTACAACATCCGGGTCTACTGCCTGCATGACACCCACGATGCACTCAAG	1872
Qy	2083	GAGGTGGTGCAGCTGGAGAAGCAGCTGGGGGGACAGCTGATCCAGGAGCCACGGGTCCTG	2142
Db	1873	GAGGTGGTGCAGCTGGAGAAGCAGCTGGGGGGACAGCTGATCCAGGAGCCACGGGTCCTG	1932
Qy	2143	CACTTCAAGGACAGTTACCACAACCTGCGCCTATCCATCCACGATGTGCCCAGCTCCCTG	2202
Db	1933	CACTTCAAGGACAGTTACCACAACCTGCGCCTATCCATCCACGATGTGCCCAGCTCCCTG	1992
Qy	2203	TGGAAGAGTAAGCTCCTTGTGCTAGCTACCAGGAGATCCCCTTTTATCACATCTGGAATGGC	2262
Db	1993	TGGAAGAGTAAGCTCCTTGTGCTAGCTACCAGGAGATCCCCTTTTATCACATCTGGAATGGC	2052
Qy	2263	ACGCAGCGGTACTTGCACTGCACCTTCACCCTGGAGCGTGTGAGCCCCAGCACTAGTGAC	2322
Db	2053	ACGCAGCGGTACTTGCACTGCACCTTCACCCTGGAGCGTGTGAGCCCCAGCACTAGTGAC	2112
Qy	2323	CTGGCCTGCAAGCTGTGGGTGTGGCAGGTGGAGGGCGACGGGCAGAGCTTCAGCATCAAC	2382
Db	2113	CTGGCCTGCAAGCTGTGGGTGTGGCAGGTGGAGGGCGACGGGCAGAGCTTCAGCATCAAC	2172
Qy	2383	TTCAACATCACCAAGGACACAAGGTTTGCTGAGCTGCTGGCTCTGGAGAGTGAAGCGGGG	2442
Db	2173	TTCAACATCACCAAGGACACAAGGTTTGCTGAGCTGCTGGCTCTGGAGAGTGAAGCGGGG	2232
Qy	2443	GTCCCAGCCCTGGTGGGCCCCAGTGCCTTCAAGATCCCCTTCCTCATTCGGCAGAAGATA	2502

Db 2233 GTCCCAGCCCTGGTGGGCCCCAGTGCCTTCAAGATCCCCTTCCTCATTCGGCAGAAGATA 2292

Qy 2503 ATTTCCAGCCTGGACCCACCCTGTAGGCGGGGTGCCGACTGGCGGACTCTGGCCCAGAAA 2562  
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Db 2293 ATTTCCAGCCTGGACCCACCCTGTAGGCGGGGTGCCGACTGGCGGACTCTGGCCCAGAAA 2352

Qy 2563 CTCCACCTGGACAGCCATCTCAGCTTCTTTGCCTCCAAGCCCAGCCCCACAGCCATGATC 2622  
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Db 2353 CTCCACCTGGACAGCCATCTCAGCTTCTTTGCCTCCAAGCCCAGCCCCACAGCCATGATC 2412

Qy 2623 CTCAACCTGTGGGAGGCGCGGCACTTCCCCAACGGCAACCTCAGCCAGCTGGCTGCAGCA 2682  
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Db 2413 CTCAACCTGTGGGAGGCGCGGCACTTCCCCAACGGCAACCTCAGCCAGCTGGCTGCAGCA 2472

Qy 2683 GTGGCTGGACTGGGCCAGCCAGACGCTGGCCTCTTCACAGTGTCTGGAGGCTGAGTGCTGA 2742  
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Db 2473 GTGGCTGGACTGGGCCAGCCAGACGCTGGCCTCTTCACAGTGTCTGGAGGCTGAGTGCTGA 2532

Qy 2743 GGCCGGCCAG 2752  
 |||

Db 2533 GGCCGGCCAG 2542

RESULT 6

US-09-933-261-1

; Sequence 1, Application US/09933261

; Publication No. US20030040046A1

; GENERAL INFORMATION:

; APPLICANT: Tessier-Lavigne, Marc

; Leonardo, E. David

; Hink, Lindsay

; Masu, Masayuki

; Kazuko, Keino-Masu

; TITLE OF INVENTION: Netrin Receptors

; NUMBER OF SEQUENCES: 8

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: SCIENCE & TECHNOLOGY LAW GROUP

; STREET: 268 BUSH STREET, SUITE 3200

; CITY: SAN FRANCISCO

; STATE: CALIFORNIA

; COUNTRY: USA

; ZIP: 94104

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: PatentIn Release #1.0, Version #1.30

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/09/933,261

; FILING DATE: 20-Aug-2001

; CLASSIFICATION: <Unknown>

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: 08/808,982

; FILING DATE: <Unknown>

; ATTORNEY/AGENT INFORMATION:

; NAME: OSMAN, RICHARD A

; REGISTRATION NUMBER: 36,627

```

;          REFERENCE/DOCKET NUMBER: UC96-217
;          TELECOMMUNICATION INFORMATION:
;          TELEPHONE: (415) 343-4341
;          TELEFAX: (415) 343-4342
;          INFORMATION FOR SEQ ID NO: 1:
;          SEQUENCE CHARACTERISTICS:
;              LENGTH: 3014 base pairs
;              TYPE: nucleic acid
;              STRANDEDNESS: double
;              TOPOLOGY: linear
;          MOLECULE TYPE: cDNA
;          SEQUENCE DESCRIPTION: SEQ ID NO: 1:
US-09-933-261-1

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Query Match          82.1%;  Score 2259;  DB 10;  Length 3014;
Best Local Similarity 89.7%;  Pred. No. 0;
Matches 2427;  Conservative 0;  Mismatches 280;  Indels 0;  Gaps 0;

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Qy      46 ATGGCCGTCCGGCCCCGGCCTGTGGCCAGCGCTCCTGGGCATAGTCCTCGCCGCTTGGCTC 105
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Db      1  ATGGCCGTCCGGCCCCGGCCTGTGGCCAGTGCTCCTGGGCATAGTCCTCGCCGCCTGGCTT 60

Qy     106 CGCGGCTCGGGTGCCCAGCAGAGTGCCACCGTGGCCAACCCAGTGCCTGGTGCCAACCCG 165
         || || ||||||||||||||||||||||||||||||||||||||||||||
Db      61 CGTGGTTTCGGGTGCCCAGCAGAGTGCCACGGTGGCCAATCCAGTGCCCGGTGCCAACCCC 120

Qy     166 GACCTGCTTCCCCACTTCCTGGTGGAGCCCGAGGATGTGTACATCGTCAAGAACAAGCCA 225
         |||||||| |||||||||||||||| |||| |||| |||||||| ||||||||
Db     121 GACCTGCTGCCCCACTTCCTGGTAGAGCCTGAGGACGTGTACATTGTCAAGAACAAGCCG 180

Qy     226 GTGCTGCTTGTGTGCAAGGCCGTGCCCGCCACGCAGATCTTCTTCAAGTGCAACGGGGAG 285
         ||| || | |||||||||||| |||| |||| ||||||||||||||||||||
Db     181 GTGTTGTTGGTGTGCAAGGCTGTGCCTGCCACCCAGATCTTCTTCAAGTGCAATGGGGAA 240

Qy     286 TGGGTGCGCCAGGTGGACCACGTGATCGAGCGCAGCACAGACGGGAGCAGTGGGCTGCCC 345
         ||||| |||||||| || ||||| || || |||||||| || | ||||| || ||||
Db     241 TGGGTCCGCCAGGTGCATCACGTAATTGAACGCAGCACCGACAGCAGCAGCGGATTGCCA 300

Qy     346 ACCATGGAGGTCCGCATTAATGTCTCAAGGCAGCAGGTGCGAGAAGGTGTTCTGGGCTGGAG 405
         |||||||||||||||| || || || || |||||||||||| |||| |||| ||||||||
Db     301 ACCATGGAGGTCCGTATCAACGTATCGAGGCAGCAGGTAGAGAAAGTGTTTGGGCTGGAG 360

Qy     406 GAATACTGGTGCCAGTGCGTGGCATGGAGCTCCTCGGGCACCACCAAGAGTCAGAAGGCC 465
         |||||||||||||||||| ||||||||||||||||||||||||||||||||
Db     361 GAATACTGGTGCCAGTGTGTGGCATGGAGCTCCTCGGGTACCACCAAAAGTCAGAAGGCC 420

Qy     466 TACATCCGCATAGCCAGATTGCGCAAGAACTTCGAGCAGGAGCCGCTGGCCAAGGAGGTG 525
         |||||||| || ||| |||||||||||||||| |||||||||||| ||||||||||||
Db     421 TACATCCGGATTGCCTATTTGCGCAAGAACTTTGAGCAGGAGCCACTGGCCAAGGAAGTG 480

Qy     526 TCCCTGGAGCAGGGCATCGTGCTGCCCTGCCGTCCACCGGAGGGCATCCCTCCAGCCGAG 585
         || |||||||| |||| || || || || || || || || || || || || || ||
Db     481 TCCTGGAGCAAGGCATTGTACTACCTTGTGCGCCCCCAGAAGGAATCCCCCAGCTGAG 540

Qy     586 GTGGAGTGGCTCCGGAACGAGGACCTGGTGGACCCGTCCCTGGACCCCAATGTATACATC 645
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Db     541 GTGGAGTGGCTTCGAAATGAGGACCTCGTGGACCCCTCCCTCGATCCCAATGTGTACATC 600

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Qy	646	ACGCGGGAGCACAGCCTGGTGGTGGACAGGCCCGCCTTGCTGACACGGCCAACTACACC	705
Db	601	ACGCGGGAGCACAGCCTAGTCGTGCGTCAGGCCCGCCTGGCCGACACGGCCAACTACACC	660
Qy	706	TGCGTGGCCAAGAACATCGTGGCACGTCGCCGAGCGCCTCCGCTGCTGTTCATCGTCTAC	765
Db	661	TGTGTGGCCAAGAACATCGTAGCCCGTCGCCGAAGCACCTCTGCAGCGGTCATTGTTTAT	720
Qy	766	GTGAACGGTGGGTGGTTCGACGTGGACCGAGTGGTCCGTCTGCAGCGCCAGCTGTGGGCGC	825
Db	721	GTGAACGGTGGGTGGTTCGACGTGGACTGAGTGGTCCGTCTGCAGCGCCAGCTGTGGGCGT	780
Qy	826	GGCTGGCAGAAACGGAGCCGGAGCTGCACCAACCCGGCGCCTCTCAACGGGGGCGCTTTC	885
Db	781	GGCTGGCAGAAACGGAGCCGGAGCTGCACCAACCCGGCACCTCTCAACGGGGGCGCTTTC	840
Qy	886	TGTGAGGGGCAGAATGTCCAGAAAACAGCCTGCGCCACCCTGTGCCAGTAGACGGCAGC	945
Db	841	TGTGAGGGGCAGAATGTCCAGAAAACAGCCTGCGCCACTCTGTGCCAGTGGATGGGAGC	900
Qy	946	TGGAGCCCGTGGAGCAAGTGGTGGCCTGTGGGCTGGACTGCACCCACTGGCGGAGCCGT	1005
Db	901	TGGAGTTCGTGGAGTAAGTGGTGCAGCCTGTGGGCTTGACTGCACCCACTGGCGGAGCCGC	960
Qy	1006	GAGTGCTCTGACCCAGCACCCCGCAACGGAGGGGAGGAGTGCCAGGGCACTGACCTGGAC	1065
Db	961	GAGTGCTCTGACCCAGCACCCCGCAATGGAGGTGAGGAGTGTGCGGGTGCTGACCTGGAC	1020
Qy	1066	ACCCGCAACTGTACCACTGACCTCTGTGTACACAGTGCTTCTGGCCCTGAGGACGTGGCC	1125
Db	1021	ACCCGCAACTGTACCACTGACCTCTGCCTGCACACCGCTTCTTGCCCCGAGGACGTGGCT	1080
Qy	1126	CTCTATGTGGGCCTCATCGCCGTGGCCGTCTGCCTGGTCCTGCTGCTGCTTGTCTCATC	1185
Db	1081	CTCTACATCGGCCTTGTCGCTGTGGCTGTGTGCCTCTTCTTGCTGTTGCTGGCCCTTGGA	1140
Qy	1186	CTCGTTTATTGCCGGAAGAAGGAGGGGCTGGACTCAGATGTGGCTGACTCGTCCATTCTC	1245
Db	1141	CTCATTTACTGTGCAAGAAGGAAGGGCTGGACTCCGATGTGGCCGACTCGTCCATCCTC	1200
Qy	1246	ACCTCAGGCTTCCAGCCCGTCAGCATCAAGCCCAGCAAAGCAGACAACCCCCATCTGCTC	1305
Db	1201	ACCTCGGGCTTCCAGCCTGTGAGCATCAAGCCCAGCAAAGCAGACAACCCCCACCTGCTC	1260
Qy	1306	ACCATCCAGCCGGACCTCAGCACCACCACCACCACCTACCAGGGCAGTCTCTGTCCCCGG	1365
Db	1261	ACCATCCAGCCAGACCTCAGCACCACCACCACCACCTACCAGGGCAGTCTATGTTTCGAGG	1320
Qy	1366	CAGGATGGGCCCAGCCCCAAGTTCAGCTCACCATGGGCACCTGCTCAGCCCCCTGGGT	1425
Db	1321	CAGGATGGACCCAGCCCCAAGTTCAGCTCTCTAATGGTCACCTGCTCAGCCCACTGGGG	1380
Qy	1426	GGCGGCCGCCACACACTGCACCACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTCTCC	1485
Db	1381	AGTGGCCGCCATACGTTGCACCACAGCTCACCACCTCTGAGGCTGAGGACTTCGTCTCC	1440

Qy	1486	CGCCTCTCCACCCAGAACTACTTCCGCTCCCTGCCCCGAGGCACCAGCAACATGACCTAT	1545
Db	1441	CGCCTCTCCACCCAAAATACTTTTCGTTCCCTGCCCCGCGGCACCAGCAACATGGCCTAC	1500
Qy	1546	GGGACCTTCAACTTCCTCGGGGGCCGGCTGATGATCCCTAATACAGGTATCAGCCTCCTC	1605
Db	1501	GGGACCTTCAACTTCCTCGGGGGCCGGCTGATGATCCCTAATACGGGGATCAGCCTCCTC	1560
Qy	1606	ATCCCCCAGATGCCATACCCCGAGGGAAGATCTATGAGATCTACCTCACGCTGCACAAG	1665
Db	1561	ATACCCCGGATGCCATCCCCGAGGAAAGATCTACGAGATCTACCTCACACTGCACAAG	1620
Qy	1666	CCGGAAGACGTGAGGTTGCCCTAGCTGGCTGTGAGTCCCATCGTTAGC	1725
Db	1621	CCAGAAGACGTGAGGTTGCCCTAGCTGGCTGTGAGTCCCAGTCGTTAGC	1680
Qy	1726	TGTGGACCCCTGGCGTCTGCTCACC CGCCAGTCATCCTGGCTATGGACCACTGTGGG	1785
Db	1681	TGTGGGCCCCCAGGAGTCTGCTCACC CGCCAGTCATCCTTGCAATGGACCACTGTGGA	1740
Qy	1786	GAGCCCAGCCCTGACAGCTGGAGCCTGCGCCTCAAAAAGCAGTCGTGCGAGGGCAGCTGG	1845
Db	1741	GAGCCCAGCCCTGACAGCTGGAGTCTGCGCCTCAAAAAGCAGTCCTGCGAGGGCAGTTGG	1800
Qy	1846	GAGGATGTGCTGCACCTGGGCGAGGAGGCGCCCTCCACCTCTACTACTGCCAGCTGGAG	1905
Db	1801	GAGGATGTGCTGCACCTTGGTGAGGAGTCACCTTCCACCTCTACTACTGCCAGCTGGAG	1860
Qy	1906	GCCAGTGCCTGCTACGTCTTCACCGAGCAGCTGGGCGCCTTTGCCCTGGTGGGAGAGGCC	1965
Db	1861	GCCGGGGCCTGCTATGTCTTCACGGAGCAGCTGGGCGCCTTTGCCCTGGTAGGAGAGGCC	1920
Qy	1966	CTCAGCGTGGCTGCCGCCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGGTGGCCTGCACC	2025
Db	1921	CTCAGCGTGGCTGCCACCAAGCGCCTCAGGCTCCTTCTGTTTGCTCCCGTGGCCTGTACG	1980
Qy	2026	TCCCTCGAGTACAACATCCGGGTCTACTGCCTGCATGACACCCACGATGCACTCAAGGAG	2085
Db	1981	TCCCTTGAGTACAACATCCGAGTGTACTGCCTACACGACACCCACGACGCTCTCAAGGAG	2040
Qy	2086	GTGGTGCAGCTGGAGAAGCAGCTGGGGGGACAGCTGATCCAGGAGCCACGGGTCTGCAC	2145
Db	2041	GTGGTGCAGCTGGAGAAGCAGCTAGGTGGACAGCTGATCCAGGAGCCTCGCGTCTGCAC	2100
Qy	2146	TTCAAGGACAGTTACCACAACCTGCGCCTATCCATCCACGATGTGCCCAGCTCCCTGTGG	2205
Db	2101	TTCAAAGACAGTTACCACAACCTACGTCTCTCCATCCACGACGTGCCCAGCTCCCTGTGG	2160
Qy	2206	AAGAGTAAGCTCCTTGTGAGCTACCAGGAGATCCCCTTTTATCACATCTGGAATGGCACG	2265
Db	2161	AAGAGCAAGCTACTTGTGAGCTACCAGGAGATCCCTTTTACCACATCTGGAACGGCACC	2220
Qy	2266	CAGCGGTACTTGCACTGCACCTTCACCCTGGAGCGTGTGAGCCCCAGCACTAGTGACCTG	2325
Db	2221	CAGCAGTATCTGCACTGCACCTTCACCCTGGAGCGCATCAACGCCAGCACCAGCGACCTG	2280
Qy	2326	GCCTGCAAGCTGTGGGTGTGGCAGGTGGAGGGCGACGGGCAGAGCTTCAGCATCAACTTC	2385

Db	2281	GCCTGCAAGGTGTGGGTGTGGCAGGTGGAGGGAGATGGGCAGAGCTTCAACATCAACTTC	2340
Qy	2386	AACATCACCAAGGACACAAGGTTTGCTGAGCTGCTGGCTCTGGAGAGTGAAGCGGGGGGTC	2445
Db	2341	AACATCACTAAGGACACAAGGTTTGCTGAATTGTTGGCTCTGGAGAGTGAAGGGGGGGGTC	2400
Qy	2446	CCAGCCCTGGTGGGCCCCAGTGCCTTCAAGATCCCCTTCCTCATTCGGCAGAAGATAATT	2505
Db	2401	CCAGCCCTGGTGGGCCCCAGTGCCTTCAAGATCCCCTTCCTCATTCGGCAAAAGATCATC	2460
Qy	2506	TCCAGCCTGGACCCACCCTGTAGGCGGGGTGCCGACTGGCGGACTCTGGCCCAGAAACTC	2565
Db	2461	GCCAGTCTGGACCCACCCTGCAGCCGGGGCGCCGACTGGAGAACTCTAGCCCAGAAACTT	2520
Qy	2566	CACCTGGACAGCCATCTCAGCTTCTTTGCCTCCAAGCCCAGCCCCACAGCCATGATCCTC	2625
Db	2521	CACCTGGACAGCCATCTTAGCTTCTTTGCCTCCAAGCCCAGCCCTACAGCCATGATCCTC	2580
Qy	2626	AACCTGTGGGAGGCGCGGCACTTCCCCAACGGCAACCTCAGCCAGCTGGCTGCAGCAGTG	2685
Db	2581	AACCTATGGGAGGCACGGCACTTCCCCAACGGCAACCTCGGCCAGCTGGCAGCAGCTGTG	2640
Qy	2686	GCTGGACTGGGCCAGCCAGACGCTGGCCTCTTCACAGTGTCTGGAGGCTGAGTGCTGAGGC	2745
Db	2641	GCCGGACTGGGCCAACCAGATGCTGGCCTCTTCACGGTGTCTGGAGGCCGAGTGTTGAGAC	2700
Qy	2746	CGGCCAG	2752
Db	2701	CAGCCAG	2707

## RESULT 7

US-10-256-702-1

; Sequence 1, Application US/10256702

; Publication No. US20030059859A1

## ; GENERAL INFORMATION:

APPLICANT: Tessier-Lavigne, Marc

Leonardo, E. David

Hink, Lindsay

; Masu, Masayuki

; Kazuko, Keino-Masu

; TITLE OF INVENTION: Netrin Receptors

; NUMBER OF SEQUENCES: 8

## CORRESPONDENCE ADDRESS:

ADDRESSEE: SCIENCE & TECHNOLOGY LAW GROUP

; STREET: 268 BUSH STREET, SUITE 3200

; CITY: SAN FRANCISCO

; STATE: CALIFORNIA

; COUNTRY: USA

; ZIP: 94104

## ; COMPUTER READABLE FORM:

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; MEDIUM TYPE: Floppy disk
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COMPUTER: IBM PC compatible

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;      OPERATING SYSTEM: PC-DOS/MS-DOS

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; SOFTWARE: PatentIn Release #1.0, Version #1.30
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## ; CURRENT APPLICATION DATA:



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; APPLICATION NUMBER: US/10/256,702
; FILING DATE: 27-Sep-2002
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/09/933,261
; FILING DATE: 20-Aug-2001
; APPLICATION NUMBER: 08/808,982
; FILING DATE: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: OSMAN, RICHARD A
; REGISTRATION NUMBER: 36,627
; REFERENCE/DOCKET NUMBER: UC96-217
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 343-4341
; TELEFAX: (415) 343-4342
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3014 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; SEQUENCE DESCRIPTION: SEQ ID NO: 1:
US-10-256-702-1

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Query Match          82.1%; Score 2259; DB 14; Length 3014;
Best Local Similarity 89.7%; Pred. No. 0;
Matches 2427; Conservative 0; Mismatches 280; Indels 0; Gaps 0;

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Qy      46 ATGGCCGTCGCGCCCGGCCTGTGGCCAGCGCTCCTGGGCATAGTCCTCGCCGCTTGGCTC 105
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Db      1 ATGGCCGTCGCGCCCGGCCTGTGGCCAGTGCTCCTGGGCATAGTCCTCGCCGCCTGGCTT 60

Qy     106 CGCGGCTCGGGTGCCCGAGCAGAGTGCCACCGTGGCCAACCCAGTGCCTGGTGCCAACCCG 165
        || || ||||||||||||||||||||||||||||||||||||||||||||
Db      61 CGTGGTTGCGGTGCCCGAGCAGAGTGCCACGGTGGCCAATCCAGTGCCCGGTGCCAACCCC 120

Qy     166 GACCTGCTTCCCCACTTCCTGGTGGAGCCCGAGGATGTGTACATCGTCAAGAACAAGCCA 225
        |||||||| |||||||||||||||||| |||| |||| |||||||| ||||||||
Db     121 GACCTGCTGCCCCACTTCCTGGTAGAGCCTGAGGACGTGTACATTGTCAAGAACAAGCCG 180

Qy     226 GTGCTGCTTGTGTGCAAGGCCGTGCCCGCCACGCAGATCTTCTTCAAGTGCAACGGGGAG 285
        ||| || | |||||||||| |||| |||| |||||||||||||||||| ||||
Db     181 GTGTTGTTGGTGTGCAAGGCTGTGCCTGCCACCCAGATCTTCTTCAAGTGCAATGGGGAA 240

Qy     286 TGGGTGCGCCAGGTGGACCACGTGATCGAGCGCAGCACAGACGGGAGCAGTGGGCTGCCC 345
        ||||| |||||||| || ||||| || || |||||||| ||| | ||||| || |||
Db     241 TGGGTCCGCCAGGTGATCACGTAATTGAACGCAGCACCGACAGCAGCAGCGGATTGCCA 300

Qy     346 ACCATGGAGGTCCGCATTAATGTCTCAAGGCAGCAGGTGAGAAAGGTGTTTCGGGCTGGAG 405
        |||||||||||||| || || || || |||||||||| |||| |||| ||||||||
Db     301 ACCATGGAGGTCCGTATCAACGTATCGAGGCAGCAGGTAGAGAAAGTGTTTGGGCTGGAG 360

Qy     406 GAATACTGGTGCCAGTGCGTGGCATGGAGCTCCTCGGGCACCACCAAGAGTCAGAAGGCC 465
        |||||||||||||| |||||||||||||||||| |||||||| ||||||||
Db     361 GAATACTGGTGCCAGTGTGTGGCATGGAGCTCCTCGGGTACCACCAAAAGTCAGAAGGCC 420

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Qy	466	TACATCCGCATAGCCAGATTGCGCAAGAACTTCGAGCAGGAGCCGCTGGCCAAAGGAGGTG	525
Db	421	TACATCCGGATTGCGCTATTTGCGCAAGAACTTTGAGCAGGAGCCACTGGCCAAGGAAGTG	480
Qy	526	TCCCTGGAGCAGGGCATCGTGCTGCCCTGCCGTCCACCGGAGGGCATCCCTCCAGCCGAG	585
Db	481	TCACTGGAGCAAGGCATTGTACTACCTTGTGCCCCCAGAAGGAATCCCCCAGCTGAG	540
Qy	586	GTGGAGTGGCTCCGGAACGAGGACCTGGTGGACCCGTCCCTGGACCCCCAATGTATACATC	645
Db	541	GTGGAGTGGCTTCGAAATGAGGACCTCGTGGACCCCTCCCTCGATCCCAATGTGTACATC	600
Qy	646	ACGCGGGAGCACAGCCTGGTGGTGCACAGGCCCGCCTTGCTGACACGGCCAACCTACACC	705
Db	601	ACGCGGGAGCACAGCCTAGTCGTGCGTCAGGCCCGCCTGGCCGACACGGCCAACCTACACC	660
Qy	706	TGCGTGGCCAAGAACATCGTGGCAGCTCGCCGACGCGCTCCGCTGCTGTCTATCGTCTAC	765
Db	661	TGTGTGGCCAAGAACATCGTAGCCCGTCGCCGAAGCACCTCTGCAGCGGTCAATTGTTTAT	720
Qy	766	GTGAACGGTGGGTGGTTCGACGTGGACCGAGTGGTCCGTCTGCAGCGCCAGCTGTGGGCGC	825
Db	721	GTGAACGGTGGGTGGTTCGACGTGGACTGAGTGGTCCGTCTGCAGCGCCAGCTGTGGGCGT	780
Qy	826	GGCTGGCAGAAACGGAGCCGGAGCTGCACCAACCCGGCGCCTCTCAACGGGGGCGCTTTC	885
Db	781	GGCTGGCAGAAACGGAGCCGGAGCTGCACCAACCCGGCACCTCTCAACGGGGGCGCCTTC	840
Qy	886	TGTGAGGGGCGAGAATGTCCAGAAAACAGCCTGCGCCACCCTGTGCCCAGTAGACGGCAGC	945
Db	841	TGTGAGGGGCGAGAATGTCCAGAAAACAGCCTGCGCCACTCTGTGCCCAGTGGATGGGAGC	900
Qy	946	TGGAGCCCGTGGAGCAAGTGGTTCGGCCTGTGGGCTGGACTGCACCCACTGGCGGAGCCGT	1005
Db	901	TGGAGTTCGTGGAGTAAGTGGTTCAGCCTGTGGGCTTGACTGCACCCACTGGCGGAGCCGC	960
Qy	1006	GAGTGCTCTGACCCAGCACCCCGCAACGGAGGGGAGGAGTGCCAGGGGCACTGACCTGGAC	1065
Db	961	GAGTGCTCTGACCCAGCACCCCGCAATGGAGGTGAGGAGTGTGCGGGTGTCTGACCTGGAC	1020
Qy	1066	ACCCGCAACTGTACCAGTGACCTCTGTGTACACAGTGCTTCTGGCCCTGAGGACGTGGCC	1125
Db	1021	ACCCGCAACTGTACCAGTGACCTCTGCCTGCACACCGCTTCTTGCCCCGAGGACGTGGCT	1080
Qy	1126	CTCTATGTGGGCCTCATCGCCGTGGCCGTCTGCCTGGTCTGCTGCTGTCTGCTCATC	1185
Db	1081	CTCTACATCGGCCTTGTGCTGTGGCTGTGTGCCTCTTCTTGCTGTTGCTGGCCCTTGA	1140
Qy	1186	CTCGTTTATTGCCGGAAGAAGGAGGGGCTGGACTCAGATGTGGCTGACTCGTCCATTCTC	1245
Db	1141	CTCATTTACTGTGCGCAAGAAGGAAGGGCTGGACTCCGATGTGGCCGACTCGTCCATCCTC	1200
Qy	1246	ACCTCAGGCTTCCAGCCCGTCAGCATCAAGCCAGCAAAGCAGACAACCCCCATCTGCTC	1305
Db	1201	ACCTCGGGCTTCCAGCCTGTGAGCATCAAGCCAGCAAAGCAGACAACCCCCACCTGCTC	1260
Qy	1306	ACCATCCAGCCGGACCTCAGCACACCACCACCACCTACCAGGGCAGTCTCTGTCCCCGG	1365

Db	1261	 ACCATCCAGCCAGACCTCAGCACCACCACTACCACCTACCAGGGCAGTCTATGTTTCGAGG	1320
Qy	1366	CAGGATGGGCCCAGCCCCAAGTTCCAGCTCACCAATGGGCACCTGCTCAGCCCCCTGGGT	1425
Db	1321	CAGGATGGACCCAGCCCCAAGTTCCAGCTCTCTAATGGTCACCTGCTCAGCCCCACTGGGG	1380
Qy	1426	GGCGGCCGCCACACACTGCACCACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTCTCC	1485
Db	1381	AGTGGCCGCCATACGTTGCACCACAGCTCACCCACCTCTGAGGCTGAGGACTTCGTCTCC	1440
Qy	1486	CGCCTCTCCACCCAGAATACTTCCGCTCCCTGCCCCGAGGCACCAGCAACATGACCTAT	1545
Db	1441	CGCCTCTCCACCCAAAATACTTTTCGTTCCCTGCCCCGCGGCACCAGCAACATGGCCTAC	1500
Qy	1546	GGGACCTTCAACTTCCTCGGGGGCCGGCTGATGATCCCTAATACAGGTATCAGCCTCCTC	1605
Db	1501	GGGACCTTCAACTTCCTCGGGGGCCGGCTGATGATCCCTAATACGGGGATCAGCCTCCTC	1560
Qy	1606	ATCCCCCAGATGCCATACCCCGAGGGAAGATCTATGAGATCTACCTCACGCTGCACAAG	1665
Db	1561	ATACCCCGGATGCCATACCCCGAGGAAAGATCTACGAGATCTACCTCACACTGCACAAG	1620
Qy	1666	CCGGAAGACGTGAGGTTGCCCCTAGCTGGCTGTCAGACCCTGCTGAGTCCCATCGTTAGC	1725
Db	1621	CCAGAAGACGTGAGGTTGCCCCTAGCTGGCTGTCAGACCCTGCTGAGTCCAGTCGTTAGC	1680
Qy	1726	TGTGGACCCCTGGCGTCTGCTCACCCGGCCAGTCATCCTGGCTATGGACCACTGTGGG	1785
Db	1681	TGTGGGCCCCCAGGAGTCCTGCTCACCCGGCCAGTCATCCTTGCAATGGACCACTGTGGA	1740
Qy	1786	GAGCCCAGCCCTGACAGCTGGAGCCTGCGCCTCAAAAAGCAGTCGTGCGAGGGCAGCTGG	1845
Db	1741	GAGCCCAGCCCTGACAGCTGGAGTCTGCGCCTCAAAAAGCAGTCCTGCGAGGGCAGTTGG	1800
Qy	1846	GAGGATGTGCTGCACCTGGGCGAGGAGGCGCCCTCCACCTCTACTACTGCCAGCTGGAG	1905
Db	1801	GAGGATGTGCTGCACCTTGGTGAGGAGTCACCTTCCACCTCTACTACTGCCAGCTGGAG	1860
Qy	1906	GCCAGTGCCTGCTACGTCTTACCGAGCAGCTGGGCCGCTTTGCCCTGGTGGGAGAGGCC	1965
Db	1861	GCCGGGGCCTGCTATGTCTTACGGAGCAGCTGGGCCGCTTTGCCCTGGTAGGAGAGGCC	1920
Qy	1966	CTCAGCGTGGCTGCCGCCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGGTGGCCTGCACC	2025
Db	1921	CTCAGCGTGGCTGCCACCAAGCGCCTCAGGCTCCTTCTGTTTGCCTGCGCCTGTACG	1980
Qy	2026	TCCCTCGAGTACAACATCCGGGTCTACTGCCTGCATGACACCCACGATGCACTCAAGGAG	2085
Db	1981	TCCCTTGAGTACAACATCCGAGTGTACTGCCTACACGACACCCACGACGCTCTCAAGGAG	2040
Qy	2086	GTGGTGCAGCTGGAGAAGCAGCTGGGGGGACAGCTGATCCAGGAGCCACGGGTCTGCAC	2145
Db	2041	GTGGTGCAGCTGGAGAAGCAGCTAGGTGGACAGCTGATCCAGGAGCCTCGCGTCTGCAC	2100
Qy	2146	TTCAAGGACAGTTACCACAACCTGCGCCTATCCATCCACGATGTGCCCAGCTCCCTGTGG	2205



Query Match 81.8%; Score 2252.2; DB 16; Length 2697;  
Best Local Similarity 89.7%; Pred. No. 0;  
Matches 2419; Conservative 0; Mismatches 278; Indels 0; Gaps 0;

Qy 646 ACGCGGGAGCACAGCCTGGTGGTGCGACAGGCCCGCCTTGCTGACACGGCCAACTACACC 705  
 |||  
 Db 601 ACGCGGGAGCACAGCCTAGTCGTGCGTCAGGCCCGCCTGGCCGACACGGCCAACTACACC 660

Qy	706	TGCGTGGCCAAGAACATCGTGGCACGTGCGCCGACGCGCCTCCGCTGCTGTGCATCGTCTAC	765
Db	661	TGTGTGGCCAAGAACATCGTAGCCCGTCGCCGAAGCACCTCTGCAGCGGTCATTGTTTAT	720
Qy	766	GTGAACGGTGGGTGGTTCGACGTGGACCGAGTGGTCCGTCTGCAGCGCCAGCTGTGGGCGC	825
Db	721	GTGAACGGTGGGTGGTTCGACGTGGACTGAGTGGTCCGTCTGCAGCGCCAGCTGTGGGCGT	780
Qy	826	GGCTGGCAGAAACGGAGCCGGAGCTGCACCAACCCGGCGCCTCTCAACGGGGGCGCTTTC	885
Db	781	GGCTGGCAGAAACGGAGCCGGAGCTGCACCAACCCGGCACCTCTCAACGGGGGCGCCTTC	840
Qy	886	TGTGAGGGGCGAATGTCCAGAAAACAGCCTGCGCCACCCTGTGCCCAGTAGACGGCAGC	945
Db	841	TGTGAGGGGCGAATGTCCAGAAAACAGCCTGCGCCACTCTGTGCCCAGTGGATGGGAGC	900
Qy	946	TGGAGCCCGTGGAGCAAGTGGTTCGGCCTGTGGGCTGGACTGCACCCACTGGCGGAGCCGT	1005
Db	901	TGGAGTTCGTGGAGTAAGTGGTTCAGCCTGTGGGCTTGACTGCACCCACTGGCGGAGCCGC	960
Qy	1006	GAGTGCTCTGACCCAGCACCCCGCAACGGAGGGGAGGAGTGCCAGGGCACTGACCTGGAC	1065
Db	961	GAGTGCTCTGACCCAGCACCCCGCAATGGAGGTGAGGAGTGTCGGGGTGCTGACCTGGAC	1020
Qy	1066	ACCCGCAACTGTACCACTGACCTCTGTGTACACAGTGCTTCTGGCCCTGAGGACGTGGCC	1125
Db	1021	ACCCGCAACTGTACCACTGACCTCTGCCTGCACACCGCTTCTTGCCCCGAGGACGTGGCT	1080
Qy	1126	CTCTATGTGGGCCTCATCGCCGTGGCCGTCTGCCTGGTCTGCTGCTGTGCTCTCATC	1185
Db	1081	CTCTACATCGGCCTTGTGCTGTGGCTGTGTGCCTCTTCTTGCTGTTGCTGGCCCTTGA	1140
Qy	1186	CTCGTTTATTGCCGGAAGAAGGAGGGGCTGGACTCAGATGTGGCTGACTCGTCCATTCTC	1245
Db	1141	CTCATTTACTGTGCAAGAAGGAAGGGCTGGACTCCGATGTGGCCGACTCGTCCATCCTC	1200
Qy	1246	ACCTCAGGCTTCCAGCCCGTCAGCATCAAGCCAGCAAAGCAGACAACCCCCATCTGCTC	1305
Db	1201	ACCTCGGGCTTCCAGCCTGTGAGCATCAAGCCAGCAAAGCAGACAACCCCCACCTGCTC	1260
Qy	1306	ACCATCCAGCCGGACCTCAGCACCACCACCACCACCTACCAGGGCAGTCTCTGTCCCCGG	1365
Db	1261	ACCATCCAGCCGAGACCTCAGCACCACCACCACCACCTACCAGGGCAGTCTATGTTTCGAGG	1320
Qy	1366	CAGGATGGGCCCAGCCCCAAGTTCAGCTCACCAATGGGCACCTGCTCAGCCCCCTGGGT	1425
Db	1321	CAGGATGGACCCAGCCCCAAGTTCAGCTCTCTAATGGTCACCTGCTCAGCCCACTGGGG	1380
Qy	1426	GGCGGCCGCCACACACTGCACCACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTCTCC	1485
Db	1381	AGTGGCCGCCATACGTTGCACCACAGCTCACCCACCTCTGAGGCTGAGGACTTCGTCTCC	1440
Qy	1486	CGCCTCTCCACCCAGAACTACTTCCGCTCCCTGCCCCGAGGCACCAGCAACATGACCTAT	1545
Db	1441	CGCCTCTCCACCCAAAACACTTTCGTTCCCTGCCCCGCGGCACCAGCAACATGGCCTAC	1500
Qy	1546	GGGACCTTCAACTTCCTCGGGGGCCGGCTGATGATCCCTAATACAGGTATCAGCCTCCTC	1605

Db	1501	 GGGACCTTCAACTTCCTCGGGGGCCGGCTGATGATCCCTAATACGGGGATCAGCCTCCTC	1560
Qy	1606	ATCCCCCAGATGCCATACCCGAGGGAAGATCTATGAGATCTACCTCACGCTGCACAAG	1665
Db	1561	 ATACCCCGGATGCCATCCCCGAGGAAAGATCTACGAGATCTACCTCACACTGCACAAG	1620
Qy	1666	CCGGAAGACGTGAGGTTGCCCCTAGCTGGCTGTCAGACCCTGCTGAGTCCCATCGTTAGC	1725
Db	1621	 CCAGAAGACGTGAGGTTGCCCCTAGCTGGCTGTCAGACCCTGCTGAGTCCAGTCGTTAGC	1680
Qy	1726	TGTGGACCCCTGGCGTCTGCTCACCCGGCCAGTCATCCTGGCTATGGACCACTGTGGG	1785
Db	1681	 TGTGGGCCCCCAGGAGTCCTGCTCACCCGGCCAGTCATCCTTGCAATGGACCACTGTGGA	1740
Qy	1786	GAGCCCAGCCCTGACAGCTGGAGCCTGCGCCTCAAAAAGCAGTCGTGCGAGGGCAGCTGG	1845
Db	1741	 GAGCCCAGCCCTGACAGCTGGAGTCTGCGCCTCAAAAAGCAGTCCTGCGAGGGCAGTTGG	1800
Qy	1846	GAGGATGTGCTGCACCTGGGCGAGGAGGCGCCCTCCACCTCTACTACTGCCAGCTGGAG	1905
Db	1801	 GAGGATGTGCTGCACCTTGGTGAGGAGTCACCTTCCACCTCTACTACTGCCAGCTGGAG	1860
Qy	1906	GCCAGTGCCTGCTACGTCTTCACCGAGCAGCTGGGCGCCTTTGCCCTGGTGGGAGAGGCC	1965
Db	1861	 GCCGGGGCCTGCTATGTCTTCACGGAGCAGCTGGGCGCCTTTGCCCTGGTAGGAGAGGCC	1920
Qy	1966	CTCAGCGTGGCTGCCGCCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGGTGGCCTGCACC	2025
Db	1921	 CTCAGCGTGGCTGCCACCAAGCGCCTCAGGCTCCTTCTGTTTGCTCCCGTGGCCTGTACG	1980
Qy	2026	TCCCTCGAGTACAACATCCGGGTCTACTGCCTGCATGACACCCACGATGCACTCAAGGAG	2085
Db	1981	 TCCCTTGAGTACAACATCCGAGTGTACTGCCTACACGACACCCACGACGCTCTCAAGGAG	2040
Qy	2086	GTGGTGCAGCTGGAGAAGCAGCTGGGGGGACAGCTGATCCAGGAGCCACGGGTCTGCAC	2145
Db	2041	 GTGGTGCAGCTGGAGAAGCAGCTAGGTGGACAGCTGATCCAGGAGCCTCGCGTCTGCAC	2100
Qy	2146	TTCAAGGACAGTTACCACAACCTGCGCCTATCCATCCACGATGTGCCCAGCTCCCTGTGG	2205
Db	2101	 TTCAAAGACAGTTACCACAACCTACGTCTCTCCATCCACGACGTGCCAGCTCCCTGTGG	2160
Qy	2206	AAGAGTAAGCTCCTTGTGCTAGCTACCAGGAGATCCCCTTTTATCACATCTGGAATGGCACG	2265
Db	2161	 AAGAGCAAGCTACTTGTGCTAGCTACCAGGAGATCCCTTTTACCACATCTGGAACGGCACC	2220
Qy	2266	CAGCGGTACTTGCACTGCACCTTCACCCTGGAGCGTGTGAGCCCCAGCACTAGTGACCTG	2325
Db	2221	 CAGCAGTATCTGCACTGCACCTTCACCCTGGAGCGCATCAACGCCAGCACCAGCGACCTG	2280
Qy	2326	GCCTGCAAGCTGTGGGTGTGGCAGGTGGAGGGCGACGGGCAGAGCTTCAGCATCAACTTC	2385
Db	2281	 GCCTGCAAGGTGTGGGTGTGGCAGGTGGAGGGAGATGGGCAGAGCTTCAACATCAACTTC	2340
Qy	2386	AACATCACCAAGGACACAAGGTTTGCTGAGCTGCTGGCTCTGGAGAGTGAAGCGGGGGTC	2445

Db 2341 AACATCACTAAGGACACAAGGTTTGCTGAATTGTTGGCTCTGGAGAGTGAAGGGGGGGTC 2400  
 Qy 2446 CCAGCCCTGGTGGGCCCCAGTGCCTTCAAGATCCCCTTCCTCATTCGGCAGAAGATAATT 2505  
 |||||  
 Db 2401 CCAGCCCTGGTGGGCCCCAGTGCCTTCAAGATCCCCTTCCTCATTCGGCAAAAGATCATC 2460  
 Qy 2506 TCCAGCCTGGACCCACCCTGTAGGCGGGGTGCCGACTGGCGGACTCTGGCCCAGAACTC 2565  
 |||||  
 Db 2461 GCCAGTCTGGACCCACCCTGCAGCCGGGGCGCCGACTGGAGAACTCTAGCCCAGAACTT 2520  
 Qy 2566 CACCTGGACAGCCATCTCAGCTTCTTTGCCTCCAAGCCCAGCCCCACAGCCATGATCCTC 2625  
 |||||  
 Db 2521 CACCTGGACAGCCATCTTAGCTTCTTTGCCTCCAAGCCCAGCCCTACAGCCATGATCCTC 2580  
 Qy 2626 AACCTGTGGGAGGCGCGGCACTTCCCCAACGGCAACCTCAGCCAGCTGGCTGCAGCAGTG 2685  
 |||||  
 Db 2581 AACCTATGGGAGGCACGGCACTTCCCCAACGGCAACCTCGGCCAGCTGGCAGCAGCTGTG 2640  
 Qy 2686 GCTGGACTGGGCCAGCCAGACGCTGGCCTCTTCACAGTGTCTGGAGGCTGAGTGCTGA 2742  
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 Db 2641 GCCGGACTGGGCCAACAGATGCTGGCCTCTTCACGGTGTCTGGAGGCCGAGTGTTGA 2697

RESULT 9

US-09-933-261-2

; Sequence 2, Application US/09933261

; Publication No. US20030040046A1

; GENERAL INFORMATION:

; APPLICANT: Tessier-Lavigne, Marc

; Leonardo, E. David

; Hink, Lindsay

; Masu, Masayuki

; Kazuko, Keino-Masu

; TITLE OF INVENTION: Netrin Receptors

; NUMBER OF SEQUENCES: 8

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: SCIENCE & TECHNOLOGY LAW GROUP

; STREET: 268 BUSH STREET, SUITE 3200

; CITY: SAN FRANCISCO

; STATE: CALIFORNIA

; COUNTRY: USA

; ZIP: 94104

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: PatentIn Release #1.0, Version #1.30

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/09/933,261

; FILING DATE: 20-Aug-2001

; CLASSIFICATION: <Unknown>

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: 08/808,982

; FILING DATE: <Unknown>

; ATTORNEY/AGENT INFORMATION:

; NAME: OSMAN, RICHARD A

; REGISTRATION NUMBER: 36,627



```

;          REFERENCE/DOCKET NUMBER: UC96-217
;          TELECOMMUNICATION INFORMATION:
;          TELEPHONE: (415) 343-4341
;          TELEFAX: (415) 343-4342
;          INFORMATION FOR SEQ ID NO: 2:
;          SEQUENCE CHARACTERISTICS:
;              LENGTH: 1787 base pairs
;              TYPE: nucleic acid
;              STRANDEDNESS: double
;              TOPOLOGY: linear
;          MOLECULE TYPE: cDNA
;          SEQUENCE DESCRIPTION: SEQ ID NO: 2:
US-09-933-261-2

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Query Match          56.8%;  Score 1562.4;  DB 10;  Length 1787;
Best Local Similarity 98.5%;  Pred. No. 0;
Matches 1661;  Conservative 0;  Mismatches 16;  Indels 9;  Gaps 8;

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Qy      1070 GCAACTGTACCAAGTGACCTCTGTGTACACAGTGCTTCTGGCCCTGAGGACGTGGCCCTCT 1129
          |||
Db      1    GCAACTGTACCAAGTGACCTCTG-GTACACACTGCTTCTGGCCCTGAGGACGTGGCCCTCT 59

Qy      1130 ATGTGGGCTCATCGCCGTGGCCGTCTGCCTGGTCCTGCTGCTGCTTGTCTCATCTCG 1189
          |||
Db      60   ATGTGGGCTCATCGCCGTGGCCGTCTGCCTGGTCCTGCTGCTGCTTGTCTCATCTCG 119

Qy      1190 TTTATTGCCGGAAGAAGGAGGGGCTGGACTCAGATGTGGCTGACTCGTCCATTCTCACCT 1249
          |||
Db      120   TTTATTGCCGGAAGAAGGAGGGGCTGGACTCAGATGTGGCTGACTCGTCCATTCTCACCT 179

Qy      1250 CAGGCTTCCAGCCCGTCAGCATC-AAGCCAGCAAAGCAGACAACCCCATCTGCTCACC 1308
          |||
Db      180   CAGGCTTCCAGCCCGTCAGCATCTAAGCCAGCAAAGCAGACAACCCCATCTGCTCACC 239

Qy      1309 ATCCAGCCGGACCTCAGCACCACCACCACCACCTACCAGGGCAGTCTCTGTCCCCGGCAG 1368
          |||
Db      240   ATCCAGCCGGACCTCAGCACCACCACCACCACCTACCAGGGCAGTCTCTGTCCCCGGCAG 299

Qy      1369 GATGGGCCCAGCCCCAAGTTCCAGCTCACCAATGGGCACCTGCTCAGCCCCCTGGGTGGC 1428
          |||
Db      300   GATGGGCCCAGCCCCAAGTTCCAGCTCACCAATGGGCACCTGCTCAGCCCCCTGGGTGGC 359

Qy      1429 GGCCGCCACACACTGCACCACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTCTCCCGC 1488
          |||
Db      360   GGCCGCCACACACTGCACCACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTCTCCCGC 419

Qy      1489 CTCTCCACCCAGAACTACTTCCGCTCCCTGCCCCGAGGCACCAGCAACATGACCTATGGG 1548
          |||
Db      420   CTCTCCACCCAGAACTACTTCCGCTCCCTGCCCCGAGGCACCAGCAACATGACCTATGGG 479

Qy      1549 ACCTTCAACTTCCTCGGGGGCCGGCTGATGATCCCTAATACAGGTATCAGCCTCCTCATC 1608
          |||
Db      480   ACCTTCAACTTCCTCGGGGGCCGGCTGATGATCCCTAATACAGGAATCAGCCTCCTCATC 539

Qy      1609 CCCCCAGATGCCATACCCCGAGGGAAGATCTATGAGATCTACCTCACGCTGCACAAGCCG 1668
          |||
Db      540   CCCCCAGATGCCATACCCCGAGGGAAGATCTATGAGATCTACCTCACGCTGCACAAGCCG 599

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Qy	1669	GAAGACGTGAGGTTGCCCCCTAGCTGGCTGTCAGACCCTGCTGAGTCCCATCGTTAGCTGT	1728
Db	600	GAAGACGTGAGGTTGCCCCCTAGCTGGCTGTCAGACCCTGCTGAGTCCCATCGTTAGCTGT	659
Qy	1729	GGACCCCCTGGCGTCCTGCTCACCCGGCCAGTCATCCTGGCTATGGACCACTGTGGGGAG	1788
Db	660	GGACCCCCTGGCGTCCTGCTCACCCGGCCAGTCATCCTGGCTATGGACCACTGTGGGGAG	719
Qy	1789	CCCAGCCCTGACAGCTGGAGCCTGCGCCTCAAAAAGCAGTCGTGCGAGGGCAGCTGGGGAG	1848
Db	720	CCCAGCCCTGACAGCTGGAGCCTGCGCCTCAAAAAGCAGTCGTGCGAGGG-AGCTGGGGAG	778
Qy	1849	GATGTGCTGCACCTGGGCGAGGAGGCGCCCTCCACCTCTACTACTGCCAGCTGGAGGCC	1908
Db	779	GATGT-CTGCACCTGGGCGAGGAGGCGCCCTCCACCTCTACTACTGCCAGCTGGAGGCC	837
Qy	1909	AGTGCCTGCTACGTCTTCACCGAGCAGCTGGGCCGCTTTGCCCTGGTGGGAGAGGCCCTC	1968
Db	838	AGTGCCTGCTACGTCTTCACCGAGCAGCTGGGCCGCTTTGCCCTGGTGGGAGAGGCCCTC	897
Qy	1969	AGCGTGGCTGCCGCCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGGTGGCCTGCACCTCC	2028
Db	898	AGCGTGGCTGCCGCCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGGTGGCCTGCACCTCC	957
Qy	2029	CTCGAGTACAACATCCGGGTCTACTGCCTGCATGACACCCACGATGCACTCAAGGAGGTG	2088
Db	958	CTCGAGTACAACATCCGGGTCTACTGCCTGCATGACACCCACGATGCACTCAAGGAGGTG	1017
Qy	2089	GTGCAGCTGGAGAAGCAGCTGGGGGGACAGCTGATCCAGGAGCCACGGGTCTGCACTTC	2148
Db	1018	GTGCAGCTGGAGAAGCAGCTGGGGGGACAGCTGATCCAGGAGCCACGGGTCTGCACTTC-	1076
Qy	2149	AAGGACAGTTACCACAACCTGCGCCTATCCATCCACGATGTGCCAGCTCCCTGTGGAAG	2208
Db	1077	AAGGACAGTTACCACAACCT--GCCCTATCATCCACGATGTGCCAGCTCCCTGTGGAAG	1134
Qy	2209	AGTAAGCTCCTTGTGAGCTACCAGGAGATCCCCCTTTTATCACATCTGGAATGGCACGCAG	2268
Db	1135	AGTAAGCTCCTTGTGAGCTACCAGGAGATCCCCCTTTTATCACATCTGGAATGGCACGCAG	1194
Qy	2269	CGGTACTTGCACTGCACCTTCACCCTGGAGCGTGTGAGCCCCAGCACTAGTGACCTGGCC	2328
Db	1195	CGGTACTTGCACTGCACCTTCACCCTGGAGCGTGTGAGCCCCAGCACTAGTGACCTGGCC	1254
Qy	2329	TGCAAGCTGTGGGTGTGGCAGGTGGAGGGCGACGGGCAGAGCTTCAGCATCAACTTCAAC	2388
Db	1255	TGCAAGCTGTGGGTGTGGCAGGTGGAGGGCGACGGGCAGAGCTTCAGCATCAACTTCAAC	1314
Qy	2389	ATCACCAAGGACACAAGGTTTGTGAGCTGCTGGCTCTGGAGAGTGAAGCGGGGGTCCCA	2448
Db	1315	ATCACCAAGGACACAAGGTTTGTGAGCTGCTGGCTCTGGAGAGTGAAGCGGGGGTCCCA	1374
Qy	2449	GCCCTGGTGGGCCCCAGTGCCTTCAAGATCCCCCTTCCTCATTCGGCAGAAGATAATTTCC	2508
Db	1375	GCCCTGGTGGGCCCCAGTGCCTTCAAGATCCCCCTTCCTCATTCGGCAGAAGATAATTTCC	1434



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; REFERENCE/DOCKET NUMBER: UC96-217
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 343-4341
; TELEFAX: (415) 343-4342
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1787 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; SEQUENCE DESCRIPTION: SEQ ID NO: 2:
US-10-256-702-2

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Query Match          56.8%; Score 1562.4; DB 14; Length 1787;
Best Local Similarity 98.5%; Pred. No. 0;
Matches 1661; Conservative 0; Mismatches 16; Indels 9; Gaps 8;

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Qy      1070 GCAACTGTACCACTGACCTCTGTGTACACAGTGCTTCTGGCCCTGAGGACGTGGCCCTCT 1129
          |||
Db      1   GCAACTGTACCACTGACCTCTG-GTACACACTGCTTCTGGCCCTGAGGACGTGGCCCTCT 59

Qy      1130 ATGTGGGCCTCATCGCCGTGGCCGTCTGCCTGGTCCTGCTGCTGCTTGTCTCATCCTCG 1189
          |||
Db      60   ATGTGGGCCTCATCGCCGTGGCCGTCTGCCTGGTCCTGCTGCTGCTTGTCTCATCCTCG 119

Qy      1190 TTTATTGCCGGAAGAAGGAGGGGCTGGACTCAGATGTGGCTGACTCGTCCATTCTCACCT 1249
          |||
Db      120   TTTATTGCCGGAAGAAGGAGGGGCTGGACTCAGATGTGGCTGACTCGTCCATTCTCACCT 179

Qy      1250 CAGGCTTCCAGCCCGTCAGCATC-AAGCCCAGCAAAGCAGACAACCCCCATCTGCTCACC 1308
          |||
Db      180   CAGGCTTCCAGCCCGTCAGCATCTAAGCCCAGCAAAGCAGACAACCCCCATCTGCTCACC 239

Qy      1309 ATCCAGCCGGACCTCAGCACCACCACCACCACCTACCAGGGCAGTCTCTGTCCCCGGCAG 1368
          |||
Db      240   ATCCAGCCGGACCTCAGCACCACCACCACCACCTACCAGGGCAGTCTCTGTCCCCGGCAG 299

Qy      1369 GATGGGCCCAGCCCCAAGTTCCAGCTCACCAATGGGCACCTGCTCAGCCCCCTGGGTGGC 1428
          |||
Db      300   GATGGGCCCAGCCCCAAGTTCCAGCTCACCAATGGGCACCTGCTCAGCCCCCTGGGTGGC 359

Qy      1429 GGCCGCCACACACTGCACCACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTCTCCCGC 1488
          |||
Db      360   GGCCGCCACACACTGCACCACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTCTCCCGC 419

Qy      1489 CTCTCCACCCAGAACTACTTCCGCTCCCTGCCCCGAGGCACCAGCAACATGACCTATGGG 1548
          |||
Db      420   CTCTCCACCCAGAACTACTTCCGCTCCCTGCCCCGAGGCACCAGCAACATGACCTATGGG 479

Qy      1549 ACCTTCAACTTCCTCGGGGGCCGGCTGATGATCCCTAATACAGGTATCAGCCTCCTCATC 1608
          |||
Db      480   ACCTTCAACTTCCTCGGGGGCCGGCTGATGATCCCTAATACAGGAATCAGCCTCCTCATC 539

Qy      1609 CCCCCAGATGCCATACCCCGAGGGAAGATCTATGAGATCTACCTCACGCTGCACAAGCCG 1668
          |||
Db      540   CCCCCAGATGCCATACCCCGAGGGAAGATCTATGAGATCTACCTCACGCTGCACAAGCCG 599

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Qy	1669	GAAGACGTGAGGTTGCCCCCTAGCTGGCTGTCAGACCCTGCTGAGTCCCATCGTTAGCTGT	1728
Db	600	GAAGACGTGAGGTTGCCCCCTAGCTGGCTGTCAGACCCTGCTGAGTCCCATCGTTAGCTGT	659
Qy	1729	GGACCCCCTGGCGTCCTGCTCACCCGGCCAGTCATCCTGGCTATGGACCACTGTGGGGAG	1788
Db	660	GGACCCCCTGGCGTCCTGCTCACCCGGCCAGTCATCCTGGCTATGGACCACTGTGGGGAG	719
Qy	1789	CCCAGCCCTGACAGCTGGAGCCTGCGCCTCAAAAAGCAGTCGTGCGAGGGCAGCTGGGAG	1848
Db	720	CCCAGCCCTGACAGCTGGAGCCTGGCCCTCAAAAAGCAGTCGTGCGAGGG-AGCTGGGAG	778
Qy	1849	GATGTGCTGCACCTGGGCGAGGAGGCGCCCTCCACCTCTACTACTGCCAGCTGGAGGCC	1908
Db	779	GATGT-CTGCACCTGGGCGAGGAGGCGCCCTCCACCTCTACTACTGCCAGCTGGAGGCC	837
Qy	1909	AGTGCCTGCTACGTCTTCACCGAGCAGCTGGGCCGCTTTGCCCTGGTGGGAGAGGCCCTC	1968
Db	838	AGTGCCTGCTACGTCTTCACCGAGCAGCTGGGCCGCTTTGCCCTGGTGGGAGAGGCCCTC	897
Qy	1969	AGCGTGGCTGCCGCCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGGTGGCCTGCACCTCC	2028
Db	898	AGCGTGGCTGCCGCCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGGTGGCCTGCACCTCC	957
Qy	2029	CTCGAGTACAACATCCGGGTCTACTGCCTGCATGACACCCACGATGCACTCAAGGAGGTG	2088
Db	958	CTCGAGTACAACATCCGGGTCTACTGCCTGCATGACACCCACGATGCACTCAAGGAGGTG	1017
Qy	2089	GTGCAGCTGGAGAAGCAGCTGGGGGGACAGCTGATCCAGGAGCCACGGGTCCTGCACTTC	2148
Db	1018	GTGCAGCTGGAGAAGCAGCTGGGGGGACAGCTGATCCAGGAGCCACGGGTCCTGCACTTC-	1076
Qy	2149	AAGGACAGTTACCACAACCTGCGCCTATCCATCCACGATGTGCCCAGCTCCCTGTGGAAG	2208
Db	1077	AAGGACAGTTACCACAACCT--GCCCTATCATCCACGATGTGCCCAGCTCCCTGTGGAAG	1134
Qy	2209	AGTAAGCTCCTTGTGAGCTACCAGGAGATCCCCTTTTATCACATCTGGAATGGCACGCAG	2268
Db	1135	AGTAAGCTCCTTGTGAGCTACCAGGAGATCCCCTTTTATCACATCTGGAATGGCACGCAG	1194
Qy	2269	CGGTACTTGCACTGCACCTTACCCTGGAGCGTGTGAGCCCCAGCACTAGTGACCTGGCC	2328
Db	1195	CGGTACTTGCACTGCACCTTACCCTGGAGCGTGTGAGCCCCAGCACTAGTGACCTGGCC	1254
Qy	2329	TGCAAGCTGTGGGTGTGGCAGGTGGAGGGCGACGGGCAGAGCTTACGATCAACTTCAAC	2388
Db	1255	TGCAAGCTGTGGGTGTGGCAGGTGGAGGGCGACGGGCAGAGCTTACGATCAACTTCAAC	1314
Qy	2389	ATCACCAAGGACACAAGGTTTGTGAGCTGCTGGCTCTGGAGAGTGAAGCGGGGGTCCCA	2448
Db	1315	ATCACCAAGGACACAAGGTTTGTGAGCTGCTGGCTCTGGAGAGTGAAGCGGGGGTCCCA	1374
Qy	2449	GCCCTGGTGGGCCCCAGTGCCTTCAAGATCCCCTTCCTCATTCGGCAGAAGATAATTTCC	2508
Db	1375	GCCCTGGTGGGCCCCAGTGCCTTCAAGATCCCCTTCCTCATTCGGCAGAAGATAATTTCC	1434

Qy	2509	AGCCTGGACCCACCCTGTAGGCGGGGTGCCGACTGGCGGACTCTGGCCCAGAACTCCAC	2568
Db	1435	AGCCTGGACCCACCCTGTAGGCGGGGTGCCGACTGGCGGACTCTGGCCCAGAACTCCAC	1494
Qy	2569	CTGGACAGCCATCTCAGCTTCTTTGCCTCCAAGCCCAGCCCCACAGCCATGATCCTCAAC	2628
Db	1495	CTGGACAGCCATCTCAGCTTCTTTGCCTCCAAGCCCAGCCCCACAGCCATGATCCTCAAC	1554
Qy	2629	CTGTGGGAGGCGCGGCACTTCCCCAACGGCAACCTCAGCCAGCTGGCTGCAGCAGTGGCT	2688
Db	1555	CTGTGGGAGGCGCGGCACTTCCCCAACGGCAACCTCAGCCAGCTGGCTGCAGCAGTGGCT	1614
Qy	2689	GGACTGGGCCAGCCAGACGCTGGCCTC-TTCACAGTG-TCGGAGGCTGAGTGCTGAGGCC	2746
Db	1615	GGGACTGGCCAGCAGGACGGTGGCTTCTTTACAGTGTTTCGGAGGCTGAGTGCTGAGGCC	1674
Qy	2747	GGCCAG	2752
Db	1675	GGCCAG	1680

RESULT 11

US-10-296-115-365

; Sequence 365, Application US/10296115

; Publication No. US20040053248A1

; GENERAL INFORMATION:

; APPLICANT: Hyseq Inc

; TITLE OF INVENTION: No. US20040053248A1el Nucleic Acids and Polypeptides

; FILE REFERENCE: 784PCT

; CURRENT APPLICATION NUMBER: US/10/296,115

; CURRENT FILING DATE: 2002-11-18

; PRIOR APPLICATION NUMBER: US09/488,725

; PRIOR FILING DATE: 2000-01-21

; PRIOR APPLICATION NUMBER: US09/552,317

; PRIOR FILING DATE: 2000-04-25

; NUMBER OF SEQ ID NOS: 1478

; SEQ ID NO 365

; LENGTH: 1321

; TYPE: DNA

; ORGANISM: Homo sapiens

US-10-296-115-365

Query Match 43.8%; Score 1206.6; DB 17; Length 1321;  
 Best Local Similarity 98.0%; Pred. No. 1.2e-299;  
 Matches 1295; Conservative 0; Mismatches 19; Indels 7; Gaps 7;

Qy	1435	CACACACTGCACCACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTCTCCCGCCTCTCC	1494
Db	1	CACACACTGCACCACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTCTCCCGCCTCTCC	60
Qy	1495	ACCCAGAACTACTTCCGCTCCCTGCCCCGAGGCACCAGCAACATGACCTATGGGACCTTC	1554
Db	61	ACCCAGAACTACTTCCGCTCCCTGCCCCGAGGCACCAGCAACATGACCTATGGGACCTTC	120
Qy	1555	AACTTCCTCGGGGGCCGGCTGATGATCCCTAATACAGGTATCAGCCTCCTCATCCCCCA	1614
Db	121	AACTTCCTCGGGGGCCGGCTGATGATCCCTAATACAGGAATCAGCCTCCTCATCCCCCA	180

Qy	1615	GATGCCATACCCCGAGGGAAGATCTATGAGATCTACCTCACGCTGCACAAGCCGGAAGAC	1674
Db	181	GATGCCATACCCCGAGGGAAGATCTATGAGATCTACCTCACGCTGCACAAGCCGGAAGAC	240
Qy	1675	GTGAGGTTGCCCCTAGCTGGCTGTCAGACCCTGCTGAGTCCCATCGTTAGCTGTGGACCC	1734
Db	241	GTGAGGTTGCCCCTAGCTGGCTGTCAGACCCTGCTGAGTCCCATCGTTAGCTGTGGACCC	300
Qy	1735	CCT-GGCGTCCTGCTCACCCGGCCAGTCATCCT-GGCTATGGACCACTGT-GGGGAGCCC	1791
Db	301	CCTGGGCGTCCTGCTTACCCGGCCAGTCATCCTGGGGTATGGACCACTGTGGGGGAGCCC	360
Qy	1792	AGCCCTGACAGCT-GGAGCCTGCGCCTCAAAAAGCAGTCGTGCGAGGGCAGCTGGGAGGA	1850
Db	361	AGCCCTGACAGCTGGGAGCCTGCGCCTCAAAAAGCAGTCGTGCGAGGGCAGCTGGGAGGA	420
Qy	1851	TGTGCTGCACCTGGGCGAGGAGGCGCCCTCCACCTCTACTACTGCCAGCTGGAGGCCAG	1910
Db	421	TGTGCTGCACCTGGGCGAGGAGGCGCCCTCCACCTCTACTACTGCCAGCTGGAGGCCAG	480
Qy	1911	TGCCTGCTACGTCTTCACCGAGCAGCTGGGCGCTTTGCCCTGGTGGGAGAGGCCCTCAG	1970
Db	481	TGCCTGCTACGTCTTCACCGAGCAGCTGAGCCGCTATGCCCTGGTGGGAGAGGCCCTCAG	540
Qy	1971	CGTGGCTGCCGCCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGGTGGCCTGCACCTCCCT	2030
Db	541	CGTGGCTGCCGCCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGGTGGCCTGCACCTCCCT	600
Qy	2031	CGAGTACAACATCCGGGTCTACTGCCTGCATGACACCCACGATGCACTCAAGGAGGTGGT	2090
Db	601	CGAGTACAACATACTGGTCTACTGCCTGCATGACACTCACGATGCACTCAACGTAGTGGT	660
Qy	2091	GCAGCTGGAGAAGCAGCTGGGGGGACAGCTGATCCAGGAGCCACGGGTCCTGCACTTCAA	2150
Db	661	GCAGCTGGAGAAGCAGCTGCAGGGACAGCTGATCCAGGAGCCACTGGTACTGCACTTCAA	720
Qy	2151	GGACAGTTACCACAACCTGCGCCTATCCATCCACGATGTGCCAGCTCCCTGTGGAAGAG	2210
Db	721	GGACAGTTACCACAACCTGCGCCTATCCATCCACGATGTGCCAGCTCCCTGTGGAAGAG	780
Qy	2211	TAAGCTCCTTGTGAGCTACCAGGAGATCCCCTTTTATCACATCTGGAATGGCACGCAGCG	2270
Db	781	TAAGCTCCTTGTGAGCTACCAGGAGATCCCCTTTTATCACATCTGGAATGGCACGCAGCG	840
Qy	2271	GTACTTGCACTGCACCTTACCCTGGAGCGTGTGAGCCCCAGCACTAGTGACCTGGCCTG	2330
Db	841	GTACTTGCACTGCACCTTACCCTGGAGCGTGTGAGCCCCAGCACTAGTGACCTGGCCTG	900
Qy	2331	CAAGCTGTGGGTGTGGCAGGTGGAGGGCGACGGGCAGAGCTTCAGCATCAACTTCAACAT	2390
Db	901	CAAGCTGTGGGTGTGGCAGGTGGAGGGCGACGGGCAGAGCTTCAGCATCAACTTCAACAT	960
Qy	2391	CACCAAGGACACAAGGTTTGTCTGAGCTGCTGGCTCTGGAGAGTGAAGCGGGGGTCCCAGC	2450
Db	961	CACCAAGGACACAAGGTTTGTCTGAGCTGCTGGCTCTGGAGAGTGAAGCGGGGGTCCCAGC	1020

Qy 2451 CCTGGTGGGCCCCAGTGCCTTCAAGATCCCCTTCCTCATTTCGGCAGAAGATAATTTCCAG 2510  
 |||  
 Db 1021 CCTGGTGGGCCCCAGTGCCTTCAAGATCCCCTTCCTCATTTCGGCAGAAGATAATTTCCAG 1080

Qy 2511 CCTGGACCCACCCTGTAGGCGGGGTGCCGACTGGCGGACTCTGGCCCAGAACTCCACCT 2570  
 |||  
 Db 1081 CCTGGACCCACCCTGTAGGCGGGGTGCCGACTGGCGGACTCTGGCCCAGAACTCCACCT 1140

Qy 2571 GGACAGCCATCTCAGCTTCTTTGCCTCCAAGCCCAGCCCCACAGCCATGATCCTCAACCT 2630  
 |||  
 Db 1141 GGACAGCCATCTCAGCTTCTTTGCCTCCAAGCCCAGCCCCACAGCCATGATCCTCAACCT 1200

Qy 2631 GTGGGAGGCGCGGCACTTCCCCAACGGCAACCTCAGCCAGCTGGCTGCAGCAGTGGCT-G 2689  
 |||  
 Db 1201 GTGGGAGGCGCGGCACTTCCCCAACGGCAACCTCAGCCAGCTGGCTGCAGCAGTGGCTGG 1260

Qy 2690 GACTGGGCCAGCCAGACGCTGGCCTC-TTCACAGTG-TCGGAGGCTGAGTGCTGAGGCCG 2747  
 |||  
 Db 1261 GACTGGGCCAGCAGGACGGTGGCTTCTTTACAGTGTTTCGGAGGCTGAGTGCTGAGGCCG 1320

Qy 2748 G 2748  
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 Db 1321 G 1321

RESULT 12

US-10-087-684-1

; Sequence 1, Application US/10087684

; Publication No. US20040029116A1

; GENERAL INFORMATION:

; APPLICANT: Edinger, Shlomit R.

; APPLICANT: MacDougall, John R.

; APPLICANT: Millet, Isabelle

; APPLICANT: Ellerman, Karen

; APPLICANT: Stone, David J.

; APPLICANT: Grosse, William M.

; APPLICANT: Lepley, Denise M.

; APPLICANT: Rieger, Daniel K.

; APPLICANT: Burgess, Cathereine E.

; APPLICANT: Casman, Stacie, J.

; APPLICANT: Spytek, Kimberly A.

; APPLICANT: Boldog, Ferenc L.

; APPLICANT: Li, Li

; APPLICANT: Padigar, Muralidhara

; APPLICANT: Mishra, Vishnu

; APPLICANT: Shenoy, Suresh G.

; APPLICANT: Rastelli, Luca

; APPLICANT: Tchernev, Velizar T.

; APPLICANT: Vernet, Corine A.M.

; APPLICANT: Zerhusen, Bryan D.

; APPLICANT: Malyankar, Uriel M.

; APPLICANT: Guo, Xiaojia

; APPLICANT: Miller, Charles E.

; APPLICANT: Gangolli, Esha A.

; TITLE OF INVENTION: PROTEINS AND NUCLEIC ACIDS ENCODING SAME

; FILE REFERENCE: 21402-214 CIP

; CURRENT APPLICATION NUMBER: US/10/087,684



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; CURRENT FILING DATE: 2003-03-10
; PRIOR APPLICATION NUMBER: 60/253,834
; PRIOR FILING DATE: 2000-11-29
; PRIOR APPLICATION NUMBER: 60/250,926
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: 60/264,180
; PRIOR FILING DATE: 2001-01-25
; PRIOR APPLICATION NUMBER: 60/274,194
; PRIOR FILING DATE: 2001-03-08
; PRIOR APPLICATION NUMBER: 60/313,656
; PRIOR FILING DATE: 2001-08-20
; PRIOR APPLICATION NUMBER: 60/327,456
; PRIOR FILING DATE: 2001-10-05
; NUMBER OF SEQ ID NOS: 220
; SOFTWARE: CuraSeqList version 0.1
; SEQ ID NO 1
; LENGTH: 2860
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (59)..(2857)
US-10-087-684-1

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Query Match          34.0%; Score 936.2; DB 17; Length 2860;
Best Local Similarity 61.7%; Pred. No. 3.6e-230;
Matches 1662; Conservative 0; Mismatches 938; Indels 93; Gaps 7;

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Qy      143 ACCCAGTGCCTGGTGCCAAACCCGGACCTGCTTCCCCACTTCCTGGTGGAGCCCCGAGGATG 202
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Db      168 ACTCCTTCCCGTCAGCGCCAGCAGAGCCGCTGCCCTACTTCCTGCAGGAGCCACAGGACG 227

Qy      203 TGTACATCGTCAAGAACAAGCCAGTGCTGCTTGTGTGCAAGGCCGTGCCCGCCACGCAGA 262
      || || | | | | | | | | | | | | | | | | | | | |
Db      228 CCTACATTGTGAAGAACAAGCCTGTGGAGCTCCGCTGCCGCGCCTTCCCCGCCACACAGA 287

Qy      263 TCTTCTTCAAGTGCAACGGGGAGTGGGTGCGCCAGGTGGACCACGTGATCGAGCGCAGCA 322
      || | | | | | | | | | | | | | | | | | | | | | |
Db      288 TCTACTTCAAGTGCAACGGCGAGTGGGTGAGCCAGAACGACCACGTACACAGGAAGGCC 347

Qy      323 CAGACGGGAGCAGTGGGCTGCCCACCATGGAGGTCCGCATTAATGTCTCAAGGCAGCAGG 382
      || | | | | | | | | | | | | | | | | | | | | | |
Db      348 TGGATGAGGCCACCGGTCTGCGGGTGCGCGAGGTGCAGATCGAGGTGTCGCGGCAGCAGG 407

Qy      383 TCGAGAAGGTGTTGCGGGCTGGAGGAATACTGGTGCCAGTGCGTGCCATGGAGCTCCTCGG 442
      | | | | | | | | | | | | | | | | | | | | | | | |
Db      408 TGGAGGAGCTCTTTGGGCTGGAGGATTACTGGTGCCAGTGCGTGCCCTGGAGCTCCGCGG 467

Qy      443 GCACCACCAAGAGTCAGAAGGCCTACATCCGCATAGCCAGATTGCGCAAGAACTTCGAGC 502
      || | | | | | | | | | | | | | | | | | | | | | |
Db      468 GCACCACCAAGAGTCGCCGAGCCTACGTCCGCATCGCCTACCTGCGCAAGAACTTCGATC 527

Qy      503 AGGAGCCGCTGGCCAAGGAGGTGTCCCTGGAGCAGGGCATCGTGCTGCCCTGCCGTCCAC 562
      || | | | | | | | | | | | | | | | | | | | | | |
Db      528 AGGAGCCTCTGGGCAAGGAGGTGCCCTGGACCATGAGGTTCTCCTGCAGTGCCGCCCCG 587

Qy      563 CGGAGGGCATCCCTCCAGCCGAGGTGGAGTGGCTCCGGAACGAGGACCTGGTGGACCCGT 622

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Db	588	CGGAGGGGGTGCCTGTGGCCGAGGTGGAATGGCTCAAGAATGAGGATGTCATCGACCCCA	647
Qy	623	CCCTGGACCCCAATGTATACATCACGCGGGAGCACAGCCTGGTGGTGCACAGGCCCGCC	682
Db	648	CCCAGGACACCAACTTCCTGCTCACCATCGACCACAACCTCATCATCCGCCAGGCCCGCC	707
Qy	683	TTGCTGACACGGCCAACTACACCTGCGTGGCCAAGAACATCGTGGCACGTCGCCGCAGCG	742
Db	708	TGTCGGGACACTGCCAACTATACTGCGTGGCCAAGAACATCGTGGCCAACGCCGGAGCA	767
Qy	743	CCTCCGCTGCTGTCATCGTCTACGTGAACGGTGGGTGGTGCACGTGGACCGAGTGGTCCG	802
Db	768	CCACTGCCACCGTCATCGTCTACGTGAATGGCGGCTGGTCCAGCTGGGCAGAGTGGTCAC	827
Qy	803	TCTGCAGCGCCAGCTGTGGGCGCGGCTGGCAGAAACGGAGCCGGAGCTGCACCAACCCGG	862
Db	828	CCTGCTCCAACCGCTGTGGCCGAGGCTGGCAGAAGCGCACCCGGACCTGCACCAACCCCG	887
Qy	863	CGCCTCTCAACGGGGGCGCTTTCTGTGAGGGGCAGAATGTCCAGAAAACAGCCTGCGCCA	922
Db	888	CTCCACTCAACGGAGGGGCGCTTCTGCGAGGGCCAGGCATTCCAGAAGACCGCCTGCACCA	947
Qy	923	CCCTGTGCCCAGTAGACGGCAGCTGGAGCCCGTGGAGCAAGTGGTCGGCCTGTGGGCTGG	982
Db	948	CCATCTGCCCAGTCGATGGGGCGTGGACGGAGTGGAGCAAGTGGTCAGCCTGCAGCACTG	1007
Qy	983	ACTGCACCCACTGGCGGAGCCGTGAGTGCTCTGACCCAGCACCCCGCAACGGAGGGGAGG	1042
Db	1008	AGTGTGCCCCTGGCGTAGCCGCGAGTGCATGGCGCCCCCACCCAGAACGGAGGCCGTG	1067
Qy	1043	AGTGCCAGGGCACTGACCTGGACACCCGCAACTGTACCAGTGACCTCTGTGTACACAGTG	1102
Db	1068	ACTGCAGCGGGACGCTGCTCGACTCTAAGAACTGCACAGATGGGCTGTGCATGCAACTGG	1127
Qy	1103	CTTCTGGCCCTGAGGACGTGGCCCTCTATGTGGGCCTCATCGCCGTGGCCGTCTGCCTGG	1162
Db	1128	AGGCCTCAGGGGATGCGGCGCTGTATGCGGGGCTCGTGGTGGCCATCTTCGTGGTCTGG	1187
Qy	1163	TCCTGCTGCTGCTTGTCTCATCCTCGTTTATTGCCGGAAGAAGGAGGGGCTGGACTCAG	1222
Db	1188	CAATCCTCATGGCGGTGGGGGTGGTGGTGTACCGCCGCAACTGCCGTGACTTCGACACAG	1247
Qy	1223	ATGTGGCTGACTCGTCCATT---CTCACCTCAGGCTTCCAGCCCGTCAGCATCAAGCCCA	1279
Db	1248	ACATCACTGACTCATCTGCTGCCCTGACTGGTGGTTTCCACCCCGTCAACTTTAAGACGG	1307...
Qy	1280	GCAAAGCAGACAACCCCATCTGCT-----CACCATCCAGCCGGACCTCAGCACCACCA	1333
Db	1308	CAAGGCCAGTAACCCGCGAGCTCCTACACCCCTCTGTGCCTCCTGACCTGACAGCCAGCG	1367
Qy	1334	CCACCACCTACCAGGGCAGTCTCTGTCCCCGGCAGGA-----	1370
Db	1368	CCGGCATCTACCGCGGACCCGTGTATGCCCTGCAGGACTCCACCGACAAAATCCCCATGA	1427
Qy	1371	-----TGGGCCCAGCCCCAAGTTCAGCTCACCA-----	1399

Db	1428	CCAACCTCTCCTCTGCTGGACCCCTTACCCAGCCCTTAAGGTC	AAGGTC	TACAGCTCCAGCA	1487
Qy	1400	--ATGGGCACCTGCTCAGCCCCCTGGGTGGCGGCCGCCACAC	-----	ACTGCACC	1447
Db	1488	CCACGGGCTCTGGGCCAGGCCTGGCAGATGGGGCTGACCTGCT	GGGGGTCT	TGCCGCTG	1547
Qy	1448	ACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTCTCCCGCCT	CTCCACCC	CAGAACTACT	1507
Db	1548	GCACATACCTAGCGATTTTCGCCCCGGGACACCCACTTCCT	TGCACCT	TGCGCAGCGCCAGCC	1607
Qy	1508	TCCGCTC-----CCTGCCCCGAGGCACCAGCAACATGACCT	TATGGG	ACCT	1552
Db	1608	TCGGTTCCAGCAGCTCTTGGGCCTGCCCGAGACCCAGGGAG	CAGCGT	CAGCGGCACCT	1667
Qy	1553	TCAACTTCTCTCGGGGGCCGGGTGATGATCCCTAATACAGGT	ATCAGCCT	CCTCATCCCCC	1612
Db	1668	TTGGCTGCCTGGGTGGGAGGCTCAGCATCCCCGGCACAGGG	GTGAGCT	TGCTGGTGCCCA	1727
Qy	1613	CAGATGCCATACCCCGAGGGAAGATCTATGAGATCTACCT	CACGCT	TGCACAAGCCGGAAG	1672
Db	1728	ATGGAGCCATTCGCCAGGGCAAGTTCACGAGATGTATCT	ACTCAT	CAACAAGGCAGAAA	1787
Qy	1673	ACGTGAGGTTGCCCTAGCTGGCTGTGACCCCTGCTGAGT	CCCATCGT	TAGCTGTGGAC	1732
Db	1788	GTACCTGCCGCTTTCAGAAAGGACCCAGACAGTATTGAG	CCCCCT	CGGTGACCTGTGGAC	1847
Qy	1733	CCCCTGGCGTCTGCTCACCCGGCCAGTCACTCCTGGCT	TATGGAC	CACTGTGGGGAGCCCA	1792
Db	1848	CCACAGGCCTCCTGCTGTGCCGCCCCGTCACTCACC	ATGCCCA	CTGTGCCGAAGTCA	1907
Qy	1793	GCCCTGACAGCTGGAGCCTGCGCCTCAAAAAGCAGTCGT	GCGAGGG	CAGCTGGGAGGATG	1852
Db	1908	GTGCCCGTGACTGGATCTTTCAGTCAAGACCCAGGCC	ACCAGGG	CCACTGGGAGGAGG	1967
Qy	1853	TGCTGCACCTGGGCGAGGAGGCGCCCTCCCACCTCT	ACTACT	GCCAGCTGGAGGCCAGTG	1912
Db	1968	TGGTGACCTGGATGAGGAGACCTGAACACACCCTGCT	ACTGCC	AGCTGGAGCCCAGGG	2027
Qy	1913	CCTGCTACGTCTTCACCGAGCAGCTGGGCGCCTTTGCC	CTGGTGG	GAGAGGCCCTCAGCG	1972
Db	2028	CCTGTACATCCTGCTGGACCAGCTGGGCACCTACGTGT	CACGGG	CAGTCTATTCCC	2087
Qy	1973	TGGCTGCCGCCAAGCGCCTCAAGCTGCTTCTGTTTGC	GCCGGT	GGCCTGCACCTCCCTCG	2032
Db	2088	GCTCAGCAGTCAAGCGGCTCCAGCTGGCCGTCTTCG	CCCCCG	CCCTCTGCACCTCCCTGG	2147
Qy	2033	AGTACAACATCCGGGTCTACTGCCTGCATGACACCC	CACGAT	GCACTCAAGGAGGTGGTGC	2092
Db	2148	AGTACAGCCTCCGGGTCTACTGCCTGGAGGACACG	CCTGTAG	CACTGAAGGAGGTGCTGG	2207
Qy	2093	AGCTGGAGAAGCAGCTGGGGGGACAGCTGATCCAGG	AGCCAC	GGGTCTTCAAGG	2152
Db	2208	AGCTGGAGCGGACTCTGGGCGGATACTTGGTGGAG	GAGCCG	AAACCGCTAATGTTCAAGG	2267
Qy	2153	ACAGTTACCACAACCTGCGCCTATCCATCCACGATGT	GCCCAG	CTCCCTGTGGAAGAGTA	2212
Db	2268	ACAGTTACCACAACCTGCGCCTCTCCCTCCATGAC	CTCCCC	ATGCCCATGGAGGAGCA	2327

Qy 2213 AGCTCCTTGTCTAGCTACCAGGAGATCCCCTTTTATCACATCTGGAATGGCACGCAGCGGT 2272  
 |||| || | || ||||| ||||| ||||| ||||| ||||| |||||  
 Db 2328 AGCTGCTGGCCAAATACCAGGAGATCCCCTTCTATCACATTTGGAGTGGCAGCCAGAAGG 2387  
 Qy 2273 ACTTGCACTGCACCTTCACCCTGGAGCGTGTCTAGCCCCAGCACTAGTGACCTGGCCTGCA 2332  
 | | ||||| ||||| ||||| | |||| | | | |||||  
 Db 2388 CCCTCCACTGCACTTTTACCCTGGAGAGGCACAGCTTGGCCTCCACAGAGCTCACCTGCA 2447  
 Qy 2333 AGCTGTGGGTGTGGCAGGTGGAGGGCGACGGGCAGAGCTTCAGCATCAACTTCAACATCA 2392  
 || | || |||| |||| |||| || || |||| |||| || || || ||  
 Db 2448 AGATCTGCGTGCGGCAAGTGGAAGGGGAGGGCCAGATATTCCAGCTGCATACCACTCTGG 2507  
 Qy 2393 CCAAG---GACACAAGGTTTGCTGAGCTGCTGGCTCTGGAGAGTGAAGCGGGGGTCCCAG 2449  
 | || | | | || || || || || || || || || || || || ||  
 Db 2508 CAGAGACACCTGCTGGCTCCCTGGACACTCTCTGCTCTGCCCCTGGCAGCACTGTACCA 2567  
 Qy 2450 CCCTGGTGGGCCCCAGTGCCTTCAAGATCCCCTTCCTCATTCGGCAGAAGATAATTTCCA 2509  
 ||| | |||| || ||||| ||||| || || || ||||| || ||  
 Db 2568 CCCAGCTGGGACCTTATGCCTTCAAGATCCCCTGTCCATCCGCCAGAAGATATGCAACA 2627  
 Qy 2510 GCCTGGACCCACCCTGTAGGCGGGGTGCCGACTGGCGGACTCTGGCCCAGAACTCCACC 2569  
 |||| || | || |||| ||||| ||||| || || |||| ||  
 Db 2628 GCCTAGATGCCCCCAACTCACGGGGCAATGACTGGCGGATGTTAGCACAGAAGCTCTCTA 2687  
 Qy 2570 TGGACAGCCATCTCAGCTTCTTTGCCTCCAAGCCCAGCCCCACAGCCATGATCCTCAACC 2629  
 |||| | | || | |||| |||| | ||||| || ||||| ||  
 Db 2688 TGGACCGGTACCTGAATTACTTTGCCACCAAAGCGAGCCCCACGGGTGTGATCCTGGACC 2747  
 Qy 2630 TGTGGGAGGCGCGGCACTTCCCCAACGGCAACCTCAGCCAGCTGGCTGCAGCAGTGGCTG 2689  
 | |||| || | || | || || |||| | |||| || || || ||  
 Db 2748 TCTGGGAAGCTCTGCAGCAGGACGATGGGGACCTCAACAGCCTGGCGAGTGCCTTGGAGG 2807  
 Qy 2690 GACTGGGCCAGCCAGACGCTGGCCTCTTCACAGTGTCTGGAGGCTGAGTGTCTGA 2742  
 |||| || || | | | || || || || || || || || || ||  
 Db 2808 AGATGGGCAAGAGTGAGATGCTGGTGGCTGTGGCCACCGACGGGGACTGCTGA 2860

# RESULT 13

US-10-087-684-3

; Sequence 3, Application US/10087684

; Publication No. US20040029116A1

## ; GENERAL INFORMATION:

; APPLICANT: Edinger, Shlomit R.  
 ; APPLICANT: MacDougall, John R.  
 ; APPLICANT: Millet, Isabelle  
 ; APPLICANT: Ellerman, Karen  
 ; APPLICANT: Stone, David J.  
 ; APPLICANT: Grosse, William M.  
 ; APPLICANT: Lepley, Denise M.  
 ; APPLICANT: Rieger, Daniel K.  
 ; APPLICANT: Burgess, Cathereine E.  
 ; APPLICANT: Casman, Stacie, J.  
 ; APPLICANT: Spytek, Kimberly A.  
 ; APPLICANT: Boldog, Ferenc L.  
 ; APPLICANT: Li, Li  
 ; APPLICANT: Padigaru, Muralidhara

```
; APPLICANT: Mishra, Vishnu
; APPLICANT: Shenoy, Suresh.G.
; APPLICANT: Rastelli, Luca
; APPLICANT: Tchernev, Velizar T.
; APPLICANT: Vernet, Corine A.M.
; APPLICANT: Zerhusen, Bryan D.
; APPLICANT: Malyankar, Uriel M.
; APPLICANT: Guo, Xiaojia
; APPLICANT: Miller, Charles E.
; APPLICANT: Gangolli, Esha A.
; TITLE OF INVENTION: PROTEINS AND NUCLEIC ACIDS ENCODING SAME
; FILE REFERENCE: 21402-214 CIP
; CURRENT APPLICATION NUMBER: US/10/087,684
; CURRENT FILING DATE: 2003-03-10
; PRIOR APPLICATION NUMBER: 60/253,834
; PRIOR FILING DATE: 2000-11-29
; PRIOR APPLICATION NUMBER: 60/250,926
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: 60/264,180
; PRIOR FILING DATE: 2001-01-25
; PRIOR APPLICATION NUMBER: 60/274,194
; PRIOR FILING DATE: 2001-03-08
; PRIOR APPLICATION NUMBER: 60/313,656
; PRIOR FILING DATE: 2001-08-20
; PRIOR APPLICATION NUMBER: 60/327,456
; PRIOR FILING DATE: 2001-10-05
; NUMBER OF SEQ ID NOS: 220
; SOFTWARE: CuraSeqList version 0.1
; SEQ ID NO 3
; LENGTH: 2860
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (59)..(2857)
US-10-087-684-3
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Query Match          34.0%; Score 936.2; DB 17; Length 2860;
Best Local Similarity 61.7%; Pred. No. 3.6e-230;
Matches 1662; Conservative 0; Mismatches 938; Indels 93; Gaps 7;
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Qy      143 ACCCAGTGCCTGGTGCCAACCCGGACCTGCTTCCCCACTTCCTGGTGGAGCCCCGAGGATG 202
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Db      168 ACTCCTTCCCGTCAGCGCCAGCAGAGCCGCTGCCCTACTTCCTGCAGGAGCCACAGGACG 227

Qy      203 TGTACATCGTCAAGAACAAGCCAGTGCTGCTTGTGTGCAAGGCCGTGCCCGCCACGCAGA 262
      |||| | | ||||| | | | | | | | | | | | | | | | | | | | | | |
Db      228 CCTACATTGTGAAGAACAAGCCTGTGGAGCTTCGCTGCCGCGCCTTCCCCGCCACACAGA 287

Qy      263 TCTTCTTCAAGTGCAACGGGGAGTGGGTGCGCCAGGTGGACCACGTGATCGAGCGCAGCA 322
      || | ||||| | | | | | | | | | | | | | | | | | | | | | |
Db      288 TCTACTTCAAGTGCAACGGCGAGTGGGTGAGCCAGAACGACCACGTACACAGGAAGGCC 347

Qy      323 CAGACGGGAGCAGTGGGCTGCCCACCATGGAGGTCCGCATTAATGTCTCAAGGCAGCAGG 382
      || | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db      348 TGGATGAGGCCACCGGCCTGCGGGTGCGCGAGGTGCAGATCGAGGTGTCGCGGCAGCAGG 407
```

Qy 383 TCGAGAAGGTGTTCTGGGCTGGAGGAATACTGGTGCCAGTGCGTGGCATGGAGCTCCTCGG 442  
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  
 Db 408 TGGAGGAGCTCTTTGGGCTGGAGGATTACTGGTGCCAGTGCGTGGCCTGGAGCTCCGCAG 467

Qy 443 GCACCACCAAGAGTCAGAAGGCCTACATCCGCATAGCCAGATTGCGCAAGAACTTCGAGC 502  
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  
 Db 468 GCACCACCAAGAGTCGCCGAGCCTACGTCCGCATCGCCTACCTGCGCAAGAACTTCGATC 527

Qy 503 AGGAGCCGCTGGCCAAGGAGGTGTCCCTGGAGCAGGGCATCGTGCTGCCCTGCCGTCCAC 562  
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  
 Db 528 AGGAGCCTCTGGGCAAGGAGGTGCCCTGGACCATGAGGTTCTCCTGCAGTGCCGCCCGC 587

Qy 563 CGGAGGGCATCCCTCCAGCCGAGGTGGAGTGGCTCCGGAACGAGGACCTGGTGGACCCGT 622  
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  
 Db 588 CGGAGGGGTGCCTGTGGCCGAGGTGGAATGGCTCAAGAATGAGGATGTCATCGACCCCA 647

Qy 623 CCCTGGACCCCAATGTATACATCACGCGGGAGCACAGCCTGGTGGTGCAGACAGGCCCGCC 682  
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 Db 648 CCCAGGACACCAACTTCCTGCTCACCATCGACCACAACCTCATCATCCGCCAGGCCCGCC 707

Qy 683 TTGCTGACACGGCCAACTACACCTGCGTGGCCAAGAACATCGTGGCACGTGCGCCGAGCG 742  
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 Db 708 TGTCGGACACTGCCAACTATACCTGCGTGGCCAAGAACATCGTGGCCAAACGCCGGAGCA 767

Qy 743 CCTCCGCTGCTGTCATCGTCTACGTGAACGGTGGGTGGTGCAGCTGGACCGAGTGGTCCG 802  
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  
 Db 768 CCACTGCCACCGTCATCGTCTACGTGAATGGCGGCTGGTCCAGCTGGGCAGAGTGGTCAC 827

Qy 803 TCTGCAGCGCCAGCTGTGGGCGCGGCTGGCAGAAACGGAGCCGGAGCTGCACCAACCCGG 862  
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  
 Db 828 CCTGCTCCAACCGCTGTGGCCGAGGCTGGCAGAAGCGCACCCGGACCTGCACCAACCCCG 887

Qy 863 CGCCTCTCAACGGGGGCGCTTTCTGTGAGGGGCAGAATGTCCAGAAAACAGCCTGCGCCA 922  
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  
 Db 888 CTCCACTCAACGGAGGGGCCTTCTGCGAGGGCCAGGCATTCCAGAAGACCGCCTGCACCA 947

Qy 923 CCCTGTGCCCAGTAGACGGCAGCTGGAGCCCGTGGAGCAAGTGGTCCGGCCTGTGGGCTGG 982  
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  
 Db 948 CCATCTGCCCAGTCGATGGGGCGTGGACGGAGTGGAGCAAGTGGTCCAGCCTGCAGCACTG 1007

Qy 983 ACTGCACCCACTGGCGGAGCCGTGAGTGCTCTGACCCAGCACCCCGCAACGGAGGGGAGG 1042  
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  
 Db 1008 AGTGTGCCCAGTGGCGTAGCCGCGAGTGCATGGCGCCCCACCCAGAACGGAGGCCGTG 1067

Qy 1043 AGTGCCAGGGCACTGACCTGGACACCCGCAACTGTACCAGTGACCTCTGTGTACACAGTG 1102  
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 Db 1068 ACTGCAGCGGGACGCTGCTCGACTCTAAGAACTGCACAGATGGGCTGTGCATGCAACTGG 1127

Qy 1103 CTTCTGGCCCTGAGGACGTGGCCCTCTATGTGGGCCTCATCGCCGTGGCCGTCTGCCTGG 1162  
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 Db 1128 AGGCCTCAGGGGATGCGGCGCTGTATGCGGGGCTCGTGGTGGCCATCTTCGTGGTCTGG 1187

Qy 1163 TCCTGCTGCTGCTTGTCTCATCCTCGTTTATTGCCGGAAGAAGGAGGGGCTGGACTCAG 1222  
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 Db 1188 CAATCCTCATGGCGGTGGGGGTGGTGGTGTACCGCCGCAACTGCCGTGACTTCGACACAG 1247

Qy 1223 ATGTGGCTGACTCGTCCATT---CTCACCTCAGGCTTCCAGCCCGTCAGCATCAAGCCCA 1279

Db 1248 ACATCACTGACTCATCTGCTGCCCTGACTGGTGGTTTCCACCCCGTCAACTTTAAGACGG 1307  
 Qy 1280 GCAAAGCAGACAACCCCCATCTGCT-----CACCATCCAGCCGGACCTCAGCACCACCA 1333  
 Db 1308 CAAGGCCCAGTAACCCGCAGCTCCTACACCCCTCTGTGCCTCCTGACCTGACAGCCAGCG 1367  
 Qy 1334 CCACCACCTACCAGGGCAGTCTCTGTCCCCGGCAGGA----- 1370  
 Db 1368 CCGGCATCTACCGCGGACCCGTGTATGCCCTGCAGGACTCCACCGACAAAATCCCCATGA 1427  
 Qy 1371 -----TGGGCCCAGCCCCAAGTTCCAGCTCACCA----- 1399  
 Db 1428 CCAACTCTCCTCTGCTGGACCCCTTACCCAGCCTTAAGGTCAAGGTCTACAGCTCCAGCA 1487  
 Qy 1400 --ATGGGCACCTGCTCAGCCCCCTGGGTGGCGGCCGCCACAC-----ACTGCACC 1447  
 Db 1488 CCACGGGCTCTGGGCCAGGCCTGGCAGATGGGGCTGACCTGCTGGGGGTCTTGCCGCCTG 1547  
 Qy 1448 ACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTCTCCCGCCTCTCCACCCAGAATACT 1507  
 Db 1548 GCACATACCCTAGCGATTTGCGCCGGGACACCCACTTCCTGCACCTGCGCAGCGCCAGCC 1607  
 Qy 1508 TCCGCTC-----CCTGCCCCGAGGCACCAGCAACATGACCTATGGGACCT 1552  
 Db 1608 TCGGTTCCAGCAGCTCTTGGGCCTGCCCCGAGACCCAGGGAGCAGCGTCAGCGGCACCT 1667  
 Qy 1553 TCAACTTCCTCGGGGGCCGGCTGATGATCCCTAATACAGGTATCAGCCTCCTCATCCCC 1612  
 Db 1668 TTGGCTGCCTGGGTGGGAGGCTCAGCATCCCCGGCACAGGGGTGAGCTTGCTGGTGCCCA 1727  
 Qy 1613 CAGATGCCATACCCCGAGGGAAGATCTATGAGATCTACCTCACGCTGCACAAGCCGGAAG 1672  
 Db 1728 ATGGAGCCATTCCCCAGGGCAAGTTCTACGAGATGTATCTACTCATCAACAAGGCAGAAA 1787  
 Qy 1673 ACGTGAGGTTGCCCCCTAGCTGGCTGTCAGACCCTGCTGAGTCCCATCGTTAGCTGTGGAC 1732  
 Db 1788 GTACCCTGCCGCTTTCAGAAGGGACCCAGACAGTATTGAGCCCCTCGGTGACCTGTGGAC 1847  
 Qy 1733 CCCCTGGCGTCCTGCTCACCCGGCCAGTCATCCTGGCTATGGACCACTGTGGGGAGCCCA 1792  
 Db 1848 CCACAGGCCTCCTGCTGTGCCGCCCGTCATCCTCACCATGCCCCACTGTGCCGAAGTCA 1907  
 Qy 1793 GCCCTGACAGCTGGAGCCTGCGCCTCAAAAAGCAGTCGTGCGAGGGCAGCTGGGAGGATG 1852  
 Db 1908 GTGCCCGTGACTGGATCTTTCAGCTCAAGACCCAGGCCACCAGGGCCACTGGGAGGAGG 1967  
 Qy 1853 TGCTGCACCTGGGCGAGGAGGCGCCCTCCACCTCTACTACTGCCAGCTGGAGGCCAGTG 1912  
 Db 1968 TGGTGACCCTGGATGAGGAGACCCTGAACACACCCTGCTACTGCCAGCTGGAGCCCAGGG 2027  
 Qy 1913 CCTGCTACGTCTTCACCGAGCAGCTGGGCCGCTTTGCCCTGGTGGGAGAGGCCCTCAGCG 1972  
 Db 2028 CCTGTACATCCTGCTGGACCAGCTGGGCACCTACGTGTTACGGGCGAGTCCTATTCCC 2087  
 Qy 1973 TGGCTGCCGCCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGGTGGCCTGCACCTCCCTCG 2032

Db 2088 GCTCAGCAGTCAAGCGGCTCCAGCTGGCCGTCTTCGCCCCCGCCCTCTGCACCTCCCTGG 2147  
 Qy 2033 AGTACAACATCCGGGTCTACTGCCTGCATGACACCCACGATGCACTCAAGGAGGTGGTGC 2092  
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 Qy 2093 AGCTGGAGAAGCAGCTGGGGGGACAGCTGATCCAGGAGCCACGGGTCTGCACTTCAAGG 2152  
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 Db 2208 AGCTGGAGCGGACTCTGGGCGGATACTTGGTGGAGGAGCCGAAACCGCTAATGTTCAAGG 2267  
 Qy 2153 ACAGTTACCACAACCTGCGCCTATCCATCCACGATGTGCCAGCTCCCTGTGGAAGAGTA 2212  
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 Db 2268 ACAGTTACCACAACCTGCGCCTCTCCCTCCATGACCTCCCCATGCCATTGGAGGAGCA 2327  
 Qy 2213 AGCTCCTTGTGAGCTACCAGGAGATCCCCTTTTATCACATCTGGAATGGCACGCAGCGGT 2272  
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 Db 2328 AGCTGCTGGCCAAATACCAGGAGATCCCCTTCTATCACATTTGGAGTGGCAGCCAGAAGG 2387  
 Qy 2273 ACTTGCACTGCACCTTCACCCTGGAGCGTGTGAGCCCCAGCACTAGTGACCTGGCCTGCA 2332  
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 Db 2388 CCCTCCACTGCACTTTCACCCTGGAGAGGCACAGCTTGGCCTCCACAGAGCTCACCTGCA 2447  
 Qy 2333 AGCTGTGGGTGTGGCAGGTGGAGGGCGACGGGCAGAGCTTCAGCATCAACTTCAACATCA 2392  
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 Db 2448 AGATCTGCGTGCGGCAAGTGGAAGGGGAGGGCCAGATATTCCAGCTGCATACCACTCTGG 2507  
 Qy 2393 CCAAG---GACACAAGGTTTGGCTGAGCTGCTGGCTCTGGAGAGTGAAGCGGGGGTCCCAG 2449  
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 Db 2508 CAGAGACACCTGCTGGCTCCCTGGACACTCTCTGCTCTGCCCCTGGCAGCACTGTCACCA 2567  
 Qy 2450 CCCTGGTGGGCCCCAGTGCCTTCAAGATCCCCTTCCTCATTCGGCAGAAGATAATTTCCA 2509  
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 Db 2568 CCCAGCTGGGACCTTATGCCTTCAAGATCCCCTGTCCATCCGCCAGAAGATATGCAACA 2627  
 Qy 2510 GCCTGGACCCACCCTGTAGGCGGGGTGCCGACTGGCGGACTCTGGCCCAGAAACTCCACC 2569  
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 Db 2628 GCCTAGATGCCCCCAACTCACGGGGCAATGACTGGCGGATGTTAGCACAGAAGCTCTCTA 2687  
 Qy 2570 TGGACAGCCATCTCAGCTTCTTTGCCTCCAAGCCCAGCCCCACAGCCATGATCCTCAACC 2629  
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 Db 2688 TGGACCGGTACCTGAATTACTTTGCCACCAAAGCGAGCCCCACGGGTGTGATCCTGGACC 2747  
 Qy 2630 TGTGGGAGGCGCGGCACTTCCCCAACGGCAACCTCAGCCAGCTGGCTGCAGCAGTGGCTG 2689  
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 Db 2748 TCTGGGAAGCTCTGCAGCAGGACGATGGGGACCTCAACAGCCTGGCGAGTGCCTTGGAGG 2807  
 Qy 2690 GACTGGGCCAGCCAGACGCTGGCCTCTTCACAGTGTGCGAGGCTGAGTGTCTGA 2742  
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 Db 2808 AGATGGGCAAGAGTGAGATGCTGGTGGCTGTGGCCACCGACGGGGACTGCTGA 2860

RESULT 14

US-10-218-779-1

; Sequence 1, Application US/10218779

; Publication No. US20040029222A1

; GENERAL INFORMATION:

; APPLICANT: Edinger, Shlomit



```

; APPLICANT: MacDougall, John
; APPLICANT: Millet, Isabelle
; APPLICANT: Ellerman, Karen
; APPLICANT: Stone, David
; APPLICANT: Gerlach, Valerie
; APPLICANT: Grosse, William
; APPLICANT: Alsobrook II, John
; APPLICANT: Lepley, Denise
; APPLICANT: Rieger, Daniel
; APPLICANT: Burgess, Catherine
; APPLICANT: Casman, Stacie
; APPLICANT: Spytek, Kimberly
; APPLICANT: Boldog, Ferenc
; APPLICANT: Li, Li
; APPLICANT: Padigaru, Muralidhara
; APPLICANT: Mishra, Vishnu
; APPLICANT: Patturajan, Meera
; APPLICANT: Shenoy, Suresh
; APPLICANT: Rastelli, Luca
; APPLICANT: Tchernev, Velizar
; APPLICANT: Vernet, Corine
; APPLICANT: Zerhusen, Bryan
; APPLICANT: Malyankar, Uriel
; APPLICANT: Guo, Xiaojia
; APPLICANT: Miller, Charles
; APPLICANT: Gangolli, Esha
; TITLE OF INVENTION: Proteins and Nucleic Acids Encoding Same
; FILE REFERENCE: 21402-214
; CURRENT APPLICATION NUMBER: US/10/218,779
; CURRENT FILING DATE: 2002-08-14
; PRIOR APPLICATION NUMBER: 60/253,834
; PRIOR FILING DATE: 2000-11-29
; PRIOR APPLICATION NUMBER: 60/250,-926
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: 60/264,180
; PRIOR FILING DATE: 2001-01-25
; PRIOR APPLICATION NUMBER: 60/313,656
; PRIOR FILING DATE: 2001-08-20
; PRIOR APPLICATION NUMBER: 60/327,456
; PRIOR FILING DATE: 2001-10-05
; NUMBER OF SEQ ID NOS: 216
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
;   LENGTH: 2860
;   TYPE: DNA
;   ORGANISM: Homo sapiens
US-10-218-779-1

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Query Match          34.0%;  Score 936.2;  DB 17;  Length 2860;
Best Local Similarity 61.7%;  Pred. No. 3.6e-230;
Matches 1662;  Conservative 0;  Mismatches 938;  Indels 93;  Gaps 7;

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Qy      143  ACCCAGTGCCTGGTGCCAACCCGGACCTGCTTCCCCACTTCCTGGTGGAGCCCAGGATG 202
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Db      168  ACTCCTTCCCGTCAGCGCCAGCAGAGCCGCTGCCCTACTTCCTGCAGGAGCCACAGGACG 227

Qy      203  TGTACATCGTCAAGAACAAGCCAGTGCTGCTTGTGTGCAAGGCCGTGCCCCGCCACGCAGA 262

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Db	228	CCTACATTGTGAAGAACAAGCCTGTGGAGCTCCGCTGCCGCGCCTTCCCCGCCACACAGA	287
Qy	263	TCTTCTTCAAGTGC AACGGGAGTGGGTGCGCCAGGTGGACCACGTGATCGAGCGCAGCA	322
Db	288	TCTACTTCAAGTGC AACGGCGAGTGGGTGAGCCAGAACGACCACGTACACAGGAAGGCC	347
Qy	323	CAGACGGGAGCAGTGGGCTGCCACCATGGAGGTCCGCATTAATGTCTCAAGGCAGCAGG	382
Db	348	TGGATGAGGCCACCGGTCTGCGGGTGCGCGAGGTGCAGATCGAGGTGTCGCGGCAGCAGG	407
Qy	383	TCGAGAAGGTGTTGCGGGCTGGAGGAATACTGGTGCCAGTGCGTGGCATGGAGCTCCTCGG	442
Db	408	TGGAGGAGCTCTTTGGGCTGGAGGATTACTGGTGCCAGTGCGTGGCCTGGAGCTCCGCGG	467
Qy	443	GCACCACCAAGAGTCAGAAGGCCCTACATCCGCATAGCCAGATTGCGCAAGAACTTCGAGC	502
Db	468	GCACCACCAAGAGTCGCCGAGCCTACGTCCGCATCGCTACCTGCGCAAGAACTTCGATC	527
Qy	503	AGGAGCCGCTGGCCAAGGAGGTGTCCCTGGAGCAGGGCATCGTGCTGCCCTGCCGTCCAC	562
Db	528	AGGAGCCTCTGGGCAAGGAGGTGCCCTGGACCATGAGGTTCTCCTGCAGTGCCGCCCCG	587
Qy	563	CGGAGGGCATCCCTCCAGCCGAGGTGGAGTGGCTCCGGAACGAGGACCTGGTGGACCCGT	622
Db	588	CGGAGGGGGTGCCTGTGGCCGAGGTGGAATGGCTCAAGAATGAGGATGTCATCGACCCCA	647
Qy	623	CCCTGGACCCCAATGTATACATCACGCGGGAGCACAGCCTGGTGGTGCACAGGCCCGCC	682
Db	648	CCCAGGACACCAACTTCCTGCTCACCATCGACCACAACCTCATCATCCGCCAGGCCCGCC	707
Qy	683	TTGCTGACACGGCCAACTACACCTGCGTGGCCAAGAACATCGTGGCACGTGCGCCGAGCG	742
Db	708	TGTCGGACACTGCCAACTATACCTGCGTGGCCAAGAACATCGTGGCCAAACGCCGAGCA	767
Qy	743	CCTCCGCTGCTGTCATCGTCTACGTGAACGGTGGGTGGTGCACGTGGACCGAGTGGTCCG	802
Db	768	CCACTGCCACCGTCATCGTCTACGTGAATGGCGGCTGGTCCAGCTGGGCAGAGTGGTCAC	827
Qy	803	TCTGCAGCGCCAGCTGTGGGCGCGGCTGGCAGAAACGGAGCCGGAGCTGCACCAACCCGG	862
Db	828	CCTGCTCCAACCGCTGTGGCCGAGGCTGGCAGAAGCGCACCCGGACCTGCACCAACCCCG	887
Qy	863	CGCCTCTCAACGGGGGCGCTTTCTGTGAGGGGCGAGAATGTCCAGAAAAACGCCTGCGCCA	922
Db	888	CTCCACTCAACGGAGGGGCTTCTGCGAGGGCCAGGCATTCAGAAAGACCGCTGCACCA	947
Qy	923	CCCTGTGCCCAGTAGACGGCAGCTGGAGCCCGTGGAGCAAGTGGTTCGGCCTGTGGGCTGG	982
Db	948	CCATCTGCCCAGTCGATGGGGCGTGGACGGAGTGGAGCAAGTGGTCAGCCTGCAGCACTG	1007
Qy	983	ACTGCACCCACTGGCGGAGCCGTGAGTGCTCTGACCCAGCACCCCGCAACGGAGGGGAGG	1042
Db	1008	AGTGTGCCCACTGGCGTAGCCGCGAGTGCATGGCGCCCCACCCAGAACGGAGGCCGTG	1067
Qy	1043	AGTGCCAGGGCACTGACCTGGACACCCGCAACTGTACCAGTGACCTCTGTGTACACAGTG	1102

Db 1068 ACTGCAGCGGGACGCTGCTCGACTCTAAGAACTGCACAGATGGGCTGTGCATGCAACTGG 1127  
 Qy 1103 CTTCTGGCCCTGAGGACGTGGCCCTCTATGTGGGCCTCATCGCCGTGGCCGTCTGCCTGG 1162  
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 Db 1128 AGGCCTCAGGGGATGCGGCGCTGTATGCGGGGCTCGTGGTGGCCATCTTCGTGGTCTGTGG 1187  
 Qy 1163 TCCTGCTGCTGCTTGTCTCATCCTCGTTTATTGCCGGAAGAAGGAGGGGCTGGACTCAG 1222  
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 Db 1188 CAATCCTCATGGCGGTGGGGGTGGTGGTGTACCGCCGCAACTGCCGTGACTTCGACACAG 1247  
 Qy 1223 ATGTGGCTGACTCGTCCATT---CTCACCTCAGGCTTCCAGCCCGTCAGCATCAAGCCCA 1279  
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 Db 1248 ACATCACTGACTCATCTGCTGCCCTGACTGGTGGTTTCCACCCCGTCAACTTTAAGACGG 1307  
 Qy 1280 GCAAAGCAGACAACCCCCATCTGCT-----CACCATCCAGCCGGACCTCAGCACCACCA 1333  
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 Db 1308 CAAGGCCAGTAACCCGCGAGCTCCTACACCCCTCTGTGCCTCCTGACCTGACAGCCAGCG 1367  
 Qy 1334 CCACCACCTACCAGGGCAGTCTCTGTCCCCGGCAGGA----- 1370  
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 Db 1368 CCGGCATCTACCGCGGACCCGTGTATGCCCTGCAGGACTCCACCGACAAAATCCCCATGA 1427  
 Qy 1371 -----TGGGCCCAGCCCCAAGTTCAGCTCACCA----- 1399  
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 Db 1428 CCAACTCTCCTCTGCTGGACCCCTTACCCAGCCTTAAGGTCAAGGTCTACAGCTCCAGCA 1487  
 Qy 1400 --ATGGGCACCTGCTCAGCCCCCTGGGTGGCGGCCGCCACAC-----ACTGCACC 1447  
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 Db 1488 CCACGGGCTCTGGGCCAGGCCTGGCAGATGGGGCTGACCTGCTGGGGGTCTTGCCGCCTG 1547  
 Qy 1448 ACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTCTCCCGCCTCTCCACCCAGAATACT 1507  
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 Db 1548 GCACATACCCTAGCGATTTGCCCCGGGACACCCACTTCCTGCACCTGCGCAGCGCCAGCC 1607  
 Qy 1508 TCCGCTC-----CCTGCCCCGAGGCACCAGCAACATGACCTATGGGACCT 1552  
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 Db 1608 TCGGTTCCCAGCAGCTCTTGGGCCTGCCCCGAGACCCAGGGAGCAGCGTCAGCGGCACCT 1667  
 Qy 1553 TCAACTTCCTCGGGGGCCGGCTGATGATCCCTAATACAGGTATCAGCCTCCTCATCCCCC 1612  
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 Db 1668 TTGGCTGCCTGGGTGGGAGGCTCAGCATCCCCGGCACAGGGGTGAGCTTGGTGGTGGCCA 1727  
 Qy 1613 CAGATGCCATACCCCGAGGGAAGATCTATGAGATCTACCTCAGCTGCACAAGCCGGAAG 1672  
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 Db 1728 ATGGAGCCATTCCCCAGGGCAAGTTCTACGAGATGTATCTACTCATCAACAAGGCAGAAA 1787  
 Qy 1673 ACGTGAGGTTGCCCCCTAGCTGGCTGTCAGACCCTGCTGAGTCCCATCGTTAGCTGTGGAC 1732  
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 Db 1788 GTACCCTGCCGCTTTCAGAAGGGACCCAGACAGTATTGAGCCCCTCGGTGACCTGTGGAC 1847  
 Qy 1733 CCCCTGGCGTCTGCTCACCCGGCCAGTCATCCTGGCTATGGACCCTGTGGGGAGCCCA 1792  
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 Db 1848 CCACAGGCCTCCTGCTGTGCCGCCCGTCATCCTCACCATGCCCCACTGTGCCGAAGTCA 1907  
 Qy 1793 GCCCTGACAGCTGGAGCCTGCGCCTCAAAAAGCAGTCGTGCGAGGGCAGCTGGGAGGATG 1852  
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 Db 1908 GTGCCCCGTGACTGGATCTTTCAGCTCAAGACCCAGGCCACCAGGGCCACTGGGAGGAGG 1967

Qy 1853 TGCTGCACCTGGGCGAGGAGGCGCCCTCCACCTCTACTACTGCCAGCTGGAGGCCAGTG. 1912  
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 Db 1968 TGGTGACCCTGGATGAGGAGACCCTGAACACACCCTGCTACTGCCAGCTGGAGCCCAGGG 2027

Qy 1913 CCTGCTACGTCTTCACCGAGCAGCTGGGCCGCTTTGCCCTGGTGGGAGAGGCCCTCAGCG 1972  
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 Db 2028 CCTGTCACATCCTGCTGGACCAGCTGGGCACCTACGTGTTACGGGCGAGTCTATTCCC 2087

Qy 1973 TGGCTGCCGCCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGGTGGCCTGCACCTCCCTCG 2032  
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Qy 2033 AGTACAACATCCGGGTCTACTGCCTGCATGACACCCACGATGCACTCAAGGAGGTGGTGC 2092  
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 Db 2148 AGTACAGCCTCCGGGTCTACTGCCTGGAGGACACGCCTGTAGCACTGAAGGAGGTGCTGG 2207

Qy 2093 AGCTGGAGAAGCAGCTGGGGGGACAGCTGATCCAGGAGCCACGGGTCCTGCACTTCAAGG 2152  
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 Db 2208 AGCTGGAGCGGACTCTGGGCGGATACTTGGTGGAGGAGCCGAAACCGCTAATGTTCAAGG 2267

Qy 2153 ACAGTTACCACAACCTGCGCCTATCCATCCACGATGTGCCAGCTCCCTGTGGAAGAGTA 2212  
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 Db 2268 ACAGTTACCACAACCTGCGCCTCTCCCTCCATGACCTCCCCATGCCCATTTGGAGGAGCA 2327

Qy 2213 AGCTCCTTGTGAGCTACCAGGAGATCCCCTTTTATCACATCTGGAATGGCACGCAGCGGT 2272  
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 Db 2328 AGCTGCTGGCCAAATACCAGGAGATCCCCTTCTATCACATTTGGAGTGGCAGCCAGAAGG 2387

Qy 2273 ACTTGCACTGCACCTTCACCCTGGAGCGTGTGAGCCCCAGCACTAGTGACCTGGCCTGCA 2332  
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 Db 2388 CCCTCCACTGCACTTTACCCTGGAGAGGCACAGCTTGGCCTCCACAGAGCTCACCTGCA 2447

Qy 2333 AGCTGTGGGTGTGGCAGGTGGAGGGCGACGGGCAGAGCTTCAGCATCAACTTCAACATCA 2392  
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 Db 2448 AGATCTGCGTGCGGCAAGTGGAAGGGGAGGGCCAGATATTCCAGCTGCATACCCTCTGG 2507

Qy 2393 CCAAG---GACACAAGGTTTGCTGAGCTGCTGGCTCTGGAGAGTGAAGCGGGGGTCCCAG 2449  
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 Db 2508 CAGAGACACCTGCTGGCTCCCTGGACACTCTCTGCTCTGCCCCTGGCAGCACTGTCACCA 2567

Qy 2450 CCCTGGTGGGCCCCAGTGCCTTCAAGATCCCCTTCTCATTCGGCAGAAGATAATTTCCTCA 2509  
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 Db 2568 CCCAGCTGGGACCTTATGCCTTCAAGATCCCACTGTCCATCCGCCAGAAGATATGCAACA 2627

Qy 2510 GCCTGGACCCACCCTGTAGGCGGGGTGCCGACTGGCGGACTCTGGCCCAGAACTCCACC 2569  
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 Db 2628 GCCTAGATGCCCCCAACTCACGGGGCAATGACTGGCGGATGTTAGCACAGAAGCTCTCTA 2687

Qy 2570 TGGACAGCCATCTCAGCTTCTTTGCCTCCAAGCCCAGCCCCACAGCCATGATCCTCAACC 2629  
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 Db 2688 TGGACCGGTACCTGAATTACTTTGCCACCAAAGCGAGCCCCACGGGTGTGATCCTGGACC 2747

Qy 2630 TGTGGGAGGCGCGGCACTTCCCCAACGGCAACCTCAGCCAGCTGGCTGCAGCAGTGGCTG 2689  
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 Db 2748 TCTGGGAAGCTCTGCAGCAGGACGATGGGGACCTCAACAGCCTGGCGAGTGCCTTGGAGG 2807

Qy 2690 GACTGGGCCAGCCAGACGCTGGCCTCTTCACAGTGTCTGGAGGCTGAGTGCTGA 2742  
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 Db 2808 AGATGGGCAAGAGTGAGATGCTGGTGGCTGTGGCCACCGACGGGGACTGCTGA 2860

RESULT 15

US-10-218-779-3

; Sequence 3, Application US/10218779

; Publication No. US20040029222A1

; GENERAL INFORMATION:

; APPLICANT: Edinger, Shlomit

; APPLICANT: MacDougall, John

; APPLICANT: Millet, Isabelle

; APPLICANT: Ellerman, Karen

; APPLICANT: Stone, David

; APPLICANT: Gerlach, Valerie

; APPLICANT: Grosse, William

; APPLICANT: Alsobrook II, John

; APPLICANT: Lepley, Denise

; APPLICANT: Rieger, Daniel

; APPLICANT: Burgess, Catherine

; APPLICANT: Casman, Stacie

; APPLICANT: Spytek, Kimberly

; APPLICANT: Boldog, Ferenc

; APPLICANT: Li, Li

; APPLICANT: Padigar, Muralidhara

; APPLICANT: Mishra, Vishnu

; APPLICANT: Patturajan, Meera

; APPLICANT: Shenoy, Suresh

; APPLICANT: Rastelli, Luca

; APPLICANT: Tchernev, Velizar

; APPLICANT: Vernet, Corine

; APPLICANT: Zerhusen, Bryan

; APPLICANT: Malyankar, Uriel

; APPLICANT: Guo, Xiaojia

; APPLICANT: Miller, Charles

; APPLICANT: Gangolli, Esha

; TITLE OF INVENTION: Proteins and Nucleic Acids Encoding Same

; FILE REFERENCE: 21402-214

; CURRENT APPLICATION NUMBER: US/10/218,779

; CURRENT FILING DATE: 2002-08-14

; PRIOR APPLICATION NUMBER: 60/253,834

; PRIOR FILING DATE: 2000-11-29

; PRIOR APPLICATION NUMBER: 60/250,-926

; PRIOR FILING DATE: 2000-11-30

; PRIOR APPLICATION NUMBER: 60/264,180

; PRIOR FILING DATE: 2001-01-25

; PRIOR APPLICATION NUMBER: 60/313,656

; PRIOR FILING DATE: 2001-08-20

; PRIOR APPLICATION NUMBER: 60/327,456

; PRIOR FILING DATE: 2001-10-05

; NUMBER OF SEQ ID NOS: 216

; SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO 3

; LENGTH: 2860

; TYPE: DNA

; ORGANISM: Homo sapiens



Qy 923 CCCTGTGCCCAGTAGACGGCAGCTGGAGCCCGTGGAGCAAGTGGTTCGGCCTGTGGGCTGG 982  
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 Db 948 CCATCTGCCCAGTCGATGGGGCGTGGACGGAGTGGAGCAAGTGGTTCAGCCTGCAGCACTG 1007

Qy 983 ACTGCACCCACTGGCGGAGCCGTGAGTGCTCTGACCCAGCACCCCGCAACGGAGGGGAGG 1042  
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 Db 1008 AGTGTGCCCAGTGGCGTAGCCGCGAGTGCATGGCGCCCCACCCAGAACGGAGGCCGTG 1067

Qy 1043 AGTGCCAGGGCACTGACCTGGACACCCGCAACTGTACCACTGACCTCTGTGTACACAGTG 1102  
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 Db 1068 ACTGCAGCGGGACGCTGCTCGACTCTAAGAACTGCACAGATGGGCTGTGCATGCAACTGG 1127

Qy 1103 CTTCTGGCCCTGAGGACGTGGCCCTCTATGTGGGCCTCATCGCCGTGGCCGTCTGCCTGG 1162  
 | || || | | | || | | | ||| | || | |||  
 Db 1128 AGGCCTCAGGGGATGCGGCGCTGTATGCGGGGCTCGTGGTGGCCATCTTCGTGGTCTGTGG 1187

Qy 1163 TCCTGCTGCTGCTTGTCTCATCCTCGTTTATTGCCGGAAGAAGGAGGGGCTGGACTCAG 1222  
 | || || || || | | || || ||||| | | ||| |||  
 Db 1188 CAATCCTCATGGCGGTGGGGGTGGTGGTGTACCGCCGCAACTGCCGTGACTTCGACACAG 1247

Qy 1223 ATGTGGCTGACTCGTCCATT---CTCACCTCAGGCTTCCAGCCCGTCAGCATCAAGCCCA 1279  
 | | ||||| || | || || || ||||| ||||| | ||| |  
 Db 1248 ACATCACTGACTCATCTGCTGCCCTGACTGGTGGTTTCCACCCCGTCAACTTTAAGACGG 1307

Qy 1280 GCAAAGCAGACAACCCCATCTGCT-----CACCATCCAGCCGGACCTCAGCACCACCA 1333  
 | | ||||| || || || || || || || || || || || |  
 Db 1308 CAAGGCCAGTAACCCGCAGCTCCTACACCCCTCTGTGCCTCCTGACCTGACAGCCAGCG 1367

Qy 1334 CCACCACCTACCAGGGCAGTCTCTGTCCCCGGCAGGA----- 1370  
 || || |||| || | | || |||||  
 Db 1368 CCGGCATCTACCGCGGACCCGTGTATGCCCTGCAGGACTCCACCGACAAAATCCCCATGA 1427

Qy 1371 -----TGGGCCCAGCCCCAAGTTCCAGCTCACCA----- 1399  
 ||||| || || || || || ||  
 Db 1428 CCAACTCTCCTCTGCTGGACCCCTTACCCAGCCTTAAGGTCAAGGTCTACAGCTCCAGCA 1487

Qy 1400 --ATGGGCACCTGCTCAGCCCCCTGGGTGGCGGCCGCCACAC-----ACTGCACC 1447  
 | |||| | | |||| | | |||| | | | ||||  
 Db 1488 CCACGGGCTCTGGGCCAGGCCTGGCAGATGGGGCTGACCTGCTGGGGGTCTTGCCGCCTG 1547

Qy 1448 ACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTCTCCGCCTCTCCACCCAGAATACTACT 1507  
 || | || || | || || || || || || || || || || |  
 Db 1548 GCACATACCCTAGCGATTTGCCCCGGGACACCCACTTCCTGCACCTGCGCAGCGCCAGCC 1607

Qy 1508 TCCGCTC-----CCTGCCCCGAGGCACCAGCAACATGACCTATGGGACCT 1552  
 || | || ||||| || || || || || || || || || ||  
 Db 1608 TCGGTTCCCAGCAGCTCTTGGGCCTGCCCCGAGACCCAGGGAGCAGCGTCAGCGGCACCT 1667

Qy 1553 TCAACTTCCTCGGGGGCCGGCTGATGATCCCTAATACAGGTATCAGCCTCCTCATCCCCC 1612  
 | || || || || || || || || || || || || || || ||  
 Db 1668 TTGGCTGCCTGGGTGGGAGGCTCAGCATCCCCGGCACAGGGGTGAGCTTGCTGGTGCCCA 1727

Qy 1613 CAGATGCCATACCCCGAGGGAAGATCTATGAGATCTACCTCACGCTGCACAAGCCGGAAG 1672  
 | |||| |||| || || || || || || || || || || ||  
 Db 1728 ATGGAGCCATTCCCCAGGGCAAGTTCTACGAGATGTATCTACTCATCAACAAGGCAGAAA 1787

Qy	1673	ACGTGAGGTTGCCCTAGCTGGCTGTCAGACCCTGCTGAGTCCCATCGTTAGCTGTGGAC	1732
Db	1788	GTACCCTGCCGCTTTTCAAGGGACCCAGACAGTATTGAGCCCCCTCGGTGACCTGTGGAC	1847
Qy	1733	CCCCTGGCGTCCTGCTCACCCGGCCAGTCATCCTGGCTATGGACCACTGTGGGGAGCCCA	1792
Db	1848	CCACAGGCCTCCTGCTGTGCCGCCCGTCATCCTCACCATGCCCCACTGTGCCGAAGTCA	1907
Qy	1793	GCCCTGACAGCTGGAGCCTGCGCCTCAAAAAGCAGTCGTGCGAGGGCAGCTGGGAGGATG	1852
Db	1908	GTGCCCCGTGACTGGATCTTTTACAGCTCAAGACCCAGGCCACCAGGGCCACTGGGAGGAGG	1967
Qy	1853	TGCTGCACCTGGGCGAGGAGGCGCCCTCCACCTCTACTACTGCCAGCTGGAGGCCAGTG	1912
Db	1968	TGGTGACCCTGGATGAGGAGACCCTGAACACACCCTGCTACTGCCAGCTGGAGCCCAGGG	2027
Qy	1913	CCTGCTACGTCTTCACCGAGCAGCTGGGCCGCTTTGCCCTGGTGGGAGAGGCCCTCAGCG	1972
Db	2028	CCTGTACATCCTGCTGGACCAGCTGGGCACCTACGTGTTACGGGCGAGTCTATTCCC	2087
Qy	1973	TGGCTGCCGCCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGGTGGCCTGCACCTCCCTCG	2032
Db	2088	GCTCAGCAGTCAAGCGGCTCCAGCTGGCCGTCTTCGCCCCCGCCCTCTGCACCTCCCTGG	2147
Qy	2033	AGTACAACATCCGGGTCTACTGCCTGCATGACACCCACGATGCACTCAAGGAGGTGGTGC	2092
Db	2148	AGTACAGCCTCCGGGTCTACTGCCTGGAGGACACGCCTGTAGCACTGAAGGAGGTGCTGG	2207
Qy	2093	AGCTGGAGAAGCAGCTGGGGGGACAGCTGATCCAGGAGCCACGGGTCTGCACTTCAAGG	2152
Db	2208	AGCTGGAGCGGACTCTGGGCGGATACTTGGTGGAGGAGCCGAAACCGCTAATGTTCAAGG	2267
Qy	2153	ACAGTTACCACAACCTGCGCCTATCCATCCACGATGTGCCCAGCTCCCTGTGGAAGAGTA	2212
Db	2268	ACAGTTACCACAACCTGCGCCTCTCCCTCCATGACCTCCCCCATGCCCATTTGGAGGAGCA	2327
Qy	2213	AGCTCCTTGTGAGCTACCAGGAGATCCCCCTTTTATCACATCTGGAATGGCACGCAGCGGT	2272
Db	2328	AGCTGCTGGCCAAATACCAGGAGATCCCCCTTCTATCACATTTGGAGTGGCAGCCAGAAGG	2387
Qy	2273	ACTTGCACTGCACCTTCACCCTGGAGCGTGTGAGCCCCAGCACTAGTGACCTGGCCTGCA	2332
Db	2388	CCCTCCACTGCACTTTTACCCTGGAGAGGCACAGCTTGGCCTCCACAGAGCTCACCTGCA	2447
Qy	2333	AGCTGTGGGTGTGGCAGGTGGAGGGCGACGGGCAGAGCTTCAGCATCAACTTCAACATCA	2392
Db	2448	AGATCTGCGTGCGGCAAGTGAAGGGGAGGGCCAGATATTCCAGCTGCATACCACTCTGG	2507
Qy	2393	CCAAG---GACACAAGGTTTGCTGAGCTGCTGGCTCTGGAGAGTGAAGCGGGGGTCCAG	2449
Db	2508	CAGAGACACCTGCTGGCTCCCTGGACACTCTCTGCTCTGCCCCCTGGCAGCACTGTCACCA	2567
Qy	2450	CCCTGGTGGGCCCCAGTGCCTTCAAGATCCCCCTTCCATTCGGCAGAAGATAATTTC	2509
Db	2568	CCCAGCTGGGACCTTATGCCTTCAAGATCCCCTGTCCATCCGCCAGAAGATATGCAACA	2627
Qy	2510	GCCTGGACCCACCCTGTAGGCGGGGTGCCGACTGGCGGACTCTGGCCCAGAACTCCACC	2569



Db	2628	GCCTAGATGCCCCCAACTCACGGGGCAATGACTGGCGGATGTTAGCACAGAAGCTCTCTA	2687
Qy	2570	TGGACAGCCATCTCAGCTTCTTTGCCTCCAAGCCCAGCCCCACAGCCATGATCCTCAACC	2629
Db	2688	TGGACCGGTACCTGAATTACTTTGCCACCAAAGCGAGCCCCACGGGTGTGATCCTGGACC	2747
Qy	2630	TGTGGGAGGCGCGGCACTTCCCCAACGGCAACCTCAGCCAGCTGGCTGCAGCAGTGGCTG	2689
Db	2748	TCTGGGAAGCTCTGCAGCAGGACGATGGGGACCTCAACAGCCTGGCGAGTGCCTTGGAGG	2807
Qy	2690	GACTGGGCCAGCCAGACGCTGGCCTCTTCACAGTGTCTGGAGGCTGAGTGCTGA	2742
Db	2808	AGATGGGCAAGAGTGAGATGCTGGTGGCTGTGGCCACCGACGGGGACTGCTGA	2860

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Job time : 1506.37 secs